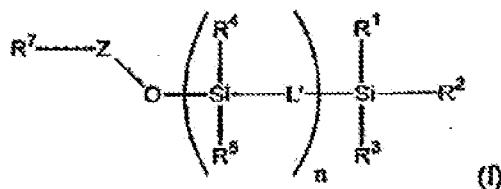


01/13/2009 14:17 FAX 212 355 3333

GODWIN PROCTER LLP

004/014

9. (Currently Amended) A paint composition according to claim 8, wherein the paint composition comprises a binder system, said binder system comprising said organosilyl esters of monocarboxylic, sulphonic or phosphoric acid as a binder component.
10. (Currently Amended) A paint composition comprising silyl esters of monocarboxylic, sulphonic or phosphoric acid, wherein the acid is saturated at the alpha carbon and is other than rosin as a binder component of a binder system.
11. (Previously Presented) A paint composition according to claim 8, which comprises a mixture of organosilyl esters of monocarboxylic, sulphonic or phosphoric acids.
12. (Currently Amended) A process for preparing a paint composition characterised in that one step of the process is the addition of organosilyl esters of acids saturated at the alpha carbon and other than rosin as a binder component of a binder system.
13. (Previously Presented) A process for preparing a paint composition according to claim 12, wherein the paint composition is an antifouling paint.
14. (Currently Amended) A binder composition according to claim 1, wherein the organo silyl ester of the carboxylic, sulphonic or phosphoric acid is based on a hydrocarbyl residue of three or more carbons greater than or equal to C3.
15. (Previously Presented) A paint composition according to claim 8, wherein the organo silyl ester of the acid is represented by the general formula (I):



wherein Z represents:

LIBNY/4796480.1

3

PAGE 4/14 \* RCVD AT 1/13/2009 2:11:51 PM [Eastern Standard Time] \* SVR:USPTO-EFXXRF-615 \* DNIS:2738300 \* CSID:212 355 3333 \* DURATION (mm:ss):02:02

**Author Search**

⇒ FILE HCAPLUS

FILE 'HCAPLUS' ENTERED AT 09:55:02 ON 25 JUN 2009

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 25 Jun 2009 VOL 150 ISS 26

FILE LAST UPDATED: 24 Jun 2009 (20090624/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2009

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

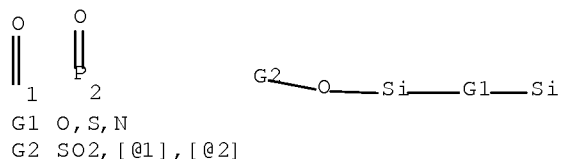
<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

⇒ D STAT QUE L33

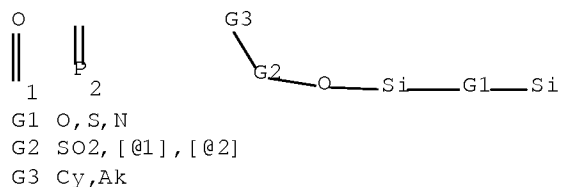
L3 STR



Structure attributes must be viewed using STN Express query preparation.

L4 ( 529)SEA FILE=REGISTRY SSS FUL L3

L5 STR



Structure attributes must be viewed using STN Express query preparation.

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L17         90310 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  PAINTS+OLD,NT/CT OR
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L19         310 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L6
L20         4 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L17 AND L19
L23         25 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L19 AND 42/SC,SX
L24         8 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L15 AND 42/SC,SX
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L27         1 SEA FILE=HCAPLUS SPE=ON  ABB=ON  PLU=ON  L19 AND L25
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⇒ D IBIB ED ABS HITSTR L33 1-7

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L33 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:      2007:496754 HCAPLUS Full-text
DOCUMENT NUMBER:       146:442280
TITLE:                 Process for the preparation of organosilylated
                        carboxylate monomers, and their use in antifouling
                        coatings
INVENTOR(S):           Plehiers, Mark; Vos, Marcel; Gillard,
                        Michel
PATENT ASSIGNEE(S):    Sigma Coatings B.V., Neth.
SOURCE:                PCT Int. Appl., 18pp.
                        CODEN: PIXXD2
DOCUMENT TYPE:          Patent
LANGUAGE:              English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

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WO 2003027124	A1	20030403	WO 2002-EP10552	20020919 ←
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1295888	A1	20030326	EP 2001-203581	20010921 ←
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
AU 2002338742	A1	20030407	AU 2002-338742	20020919 ←

Serial No.:10/555,857

EP 1427736 A1 20040616 EP 2002-777159 20020919 ←  
 EP 1427736 B1 20061115  
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 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK  
 JP 2005503439 T 20050203 JP 2003-530711 20020919 ←  
 US 20050014963 A1 20050120 US 2004-490126 20040903 ←  
 US 7122692 B2 20061017  
 PRIORITY APPLN. INFO.: EP 2001-203581 A 20010921 ←  
 EP 2002-76553 A 20020419 ←  
 WO 2002-EP10552 W 20020919 ←

ED Entered STN: 08 May 2007

AB Organosilylated carboxylate monomers are prepared by reacting an acyloxysilane with an unsatd. Carboxylic acid, where the monomers are useful as comonomers in binders of antifouling coating compns. 20 ML of acetoxymethyltrimethylsilane and 11.4 mL of com. Methacrylic acid in 100 mL of hexane are mixed and heated, then the product is purified by azeotropic distillation of acetic acid to give trimethylsilyl methacrylate.

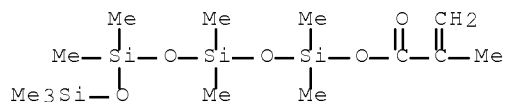
IT 640772-61-8P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(monomer; process for the preparation of organosilylated carboxylate monomers, and their use in antifouling coatings)

RN 640772-61-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1,3,3,5,5,7,7,7-nonamethyl-1-tetrasiloxanyl ester (CA INDEX NAME)



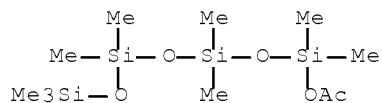
IT 3453-81-4, Nonamethyl-1-acetoxy-tetrasiloxane

RL: RCT (Reactant); RACT (Reactant or reagent)

(process for the preparation of organosilylated carboxylate monomers, and their use in antifouling coatings)

RN 3453-81-4 HCAPLUS

CN 1-Tetrasiloxanol, 1,1,3,3,5,5,7,7,7-nonamethyl-, 1-acetate (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:29332 HCAPLUS Full-text

DOCUMENT NUMBER: 144:109876

TITLE: Hydrolyzable binders for antifouling coating

compositions  
 INVENTOR(S): Plehiers, Mark; Gillard, Michel  
 PATENT ASSIGNEE(S): Sigmakalon B.V., Neth.  
 SOURCE: Eur. Pat. Appl., 14 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1614722	A1	20060111	EP 2004-254073	20040707
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
JP 2006022332	A	20060126	JP 2005-199139	20050707
PRIORITY APPLN. INFO.:			EP 2004-254073	A 20040707
ED	Entered STN: 12 Jan 2006			

AB The \_ydroxyl\_ble binder comprises  $\geq 1$  hydrolyzable side chain -  
 $ZO[Si(R4)(R5)O]_nSi(R1)(R2)R3$  ( $Z = -CO-, -SO2-, -P(:O)(-)-, -P(:O)(OH)-$ ;  $R4, R5 = -Osi(R1)(R2)R3, -O[Si(R4)(R5)O]_nSi(R1)(R2)R3, H$  \_ydroxyl, alkyl, aryl, alkoxy, aryloxy, alkenyl, alkynyl, aralkyl or aralkyloxy;  $R1, R2$  and  $R3 = H, _ydroxyl, alkyl, alkenyl, alkynyl, alkoxy, -Osi(R1)(R2)R3, - - O[Si(R4)(R5)O]_nSi(R1)(R2)R3, aryl, aryloxy, aralkyl$  or aralkyloxy;  $n = 1-1000$ ). The antifouling coating composition comprises the \_ydroxyl\_ble binder and  $\geq 1$  metal oxide selected from  $Cu_2O$  and  $ZnO$ .

IT ~~872692-09-6P~~ ~~872692-10-9P~~ ~~872692-11-0P~~  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (\_ydroxyl\_ble binders for antifouling coating compns.)

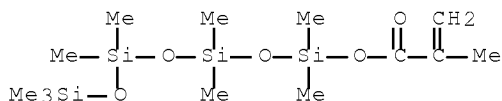
RN 872692-09-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate and nonamethyltetrasiloxanyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

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CRN 640772-61-8

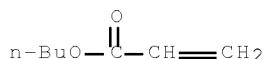
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CM 2

CRN 141-32-2

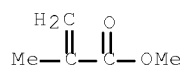
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CM 3

CRN 80-62-6

CMF C5 H8 O2



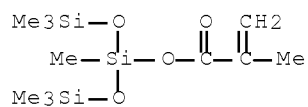
RN 872692-10-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate and 1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

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CRN 121836-13-3

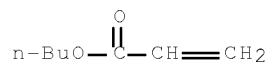
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CM 2

CRN 141-32-2

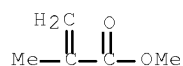
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CM 3

CRN 80-62-6

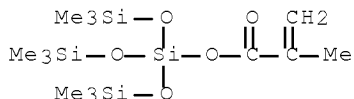
CMF C5 H8 O2



RN 872692-11-0 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate and 3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]disiloxanyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

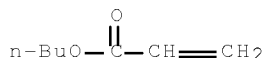
CM 1

CRN 121836-11-1  
 CMF C13 H32 O5 Si4



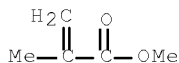
CM 2

CRN 141-32-2  
 CMF C7 H12 O2



CM 3

CRN 80-62-6  
 CMF C5 H8 O2



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:960087 HCAPLUS Full-text

DOCUMENT NUMBER: 141:396895

TITLE: Silyl esters, their use in binder systems and paint compositions and a process of production thereof

PATENT ASSIGNEE(S): Sigmakalon Services B.V., Neth.

SOURCE: Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1475415	A1	20041110	EP 2003-252855	20030507
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
WO 2004099326	A2	20041118	WO 2004-EP4997	20040507
WO 2004099326	A3	20050506		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1620514	A2	20060201	EP 2004-731611	20040507
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CN 1784478	A	20060607	CN 2004-80012176	20040507
CN 100393822	C	20080611		
JP 2006525396	T	20061109	JP 2006-505410	20040507
US 20070161722	A1	20070712	US 2005-555857	20051102
NO 2005005366	A	20051111	NO 2005-5366	20051111
PRIORITY APPLN. INFO.:			EP 2003-252855	A 20030507
			WO 2004-EP4997	W 20040507

ED Entered STN: 11 Nov 2004

AB The use of an organosilyl ester as an alkaline hydrolysis or erosion booster for the binder system of a paint formulation is described. The booster is used in paint formulations which require hydrolysis of one or more of the components of the paint in use. The organosilyl esters of the invention may also independently be film forming. The organosilyl ester may be the ester of a high-boiling carboxylic, sulfonic or phosphoric acid, such as hydrogenated rosin-ethyltriacetoxysilane adduct. The binder systems of the invention can be used in paint compns., such as self-polishing antifouling paints.

IT 3292-96-4 3453-81-4, Nonamethyl-1-acetoxytetrasiloxane  
 3560-95-0, Undecamethyl-1-acetoxypentasiloxane 70693-47-9  
 , Pentamethyl-1-acetoxydisiloxane 144139-44-6,  
 Tridecamethyl-1-acetoxyhexasiloxane 718614-11-0,  
 Nonaethyl-1-acetoxytetrasiloxane 718614-12-1,  
 Nona-tert-butyl-1-acetoxytetrasiloxane 718614-13-2,  
 Nonabenzyl-1-acetoxytetrasiloxane 718614-14-3,  
 Nonaisopropyl-1-acetoxytetrasiloxane 718614-15-4,  
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Serial No.:10/555,857

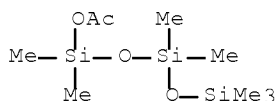
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RL: RCT (Reactant); RACT (Reactant or reagent)

(ester precursor; silyl esters of high-boiling acids for erosion promoters in self-polishing antifouling paints)

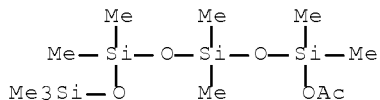
RN 3292-96-4 HCAPLUS

CN Silanol, 1,1-dimethyl-1-[(1,1,3,3,3-pentamethyl-1-disiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



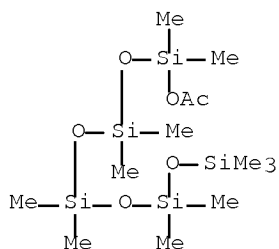
RN 3453-81-4 HCAPLUS

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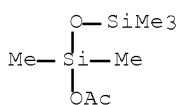


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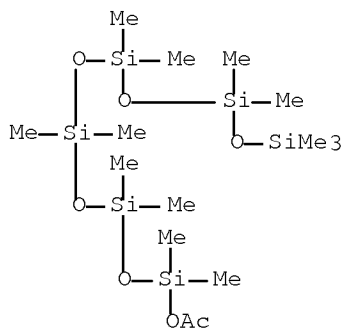
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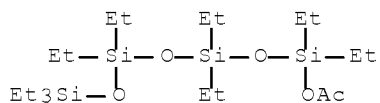
RN 70693-47-9 HCAPLUS  
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RN 144139-44-6 HCAPLUS  
 CN Silanol, 1,1-dimethyl-1-[(1,1,3,3,5,5,7,7,9,9,9-undecamethyl-1-pentasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)

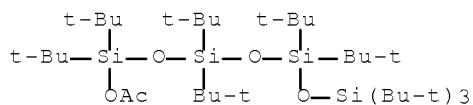


RN 718614-11-0 HCAPLUS  
 CN Silanol, 1,1-diethyl-1-[(1,1,3,3,5,5,5-heptaethyl-1-trisiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



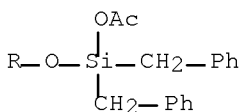
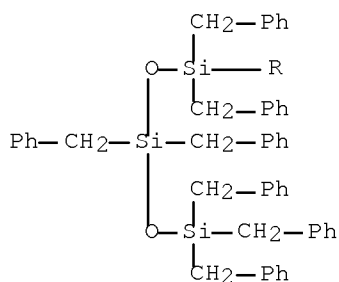
RN 718614-12-1 HCAPLUS

CN Silanol, 1,1-bis(1,1-dimethylethyl)-1-[[1,1,3,3,5,5,5-heptakis(1,1-dimethylethyl)-1-trisiloxanyl]oxy]-, 1-acetate (CA INDEX NAME)



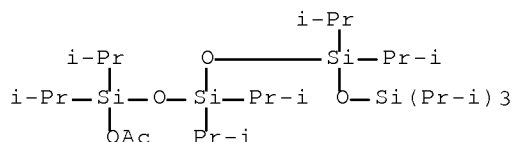
RN 718614-13-2 HCAPLUS

CN Silanol, 1-[[1,1,3,3,5,5,5-heptakis(phenylmethyl)-1-trisiloxanyl]oxy]-1,1-bis(phenylmethyl)-, 1-acetate (CA INDEX NAME)



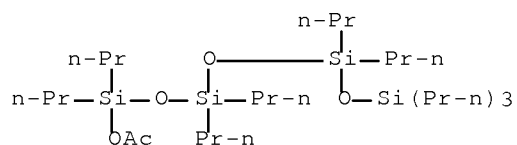
RN 718614-14-3 HCAPLUS

CN Silanol, 1-[[1,1,3,3,5,5,5-heptakis(1-methylethyl)-1-trisiloxanyl]oxy]-1,1-bis(1-methylethyl)-, 1-acetate (CA INDEX NAME)



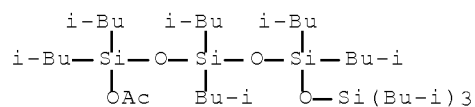
RN 718614-15-4 HCAPLUS

CN Silanol, 1-[(1,1,3,3,5,5,5-heptapropyl-1-trisiloxanyl)oxy]-1,1-dipropyl-, 1-acetate (CA INDEX NAME)



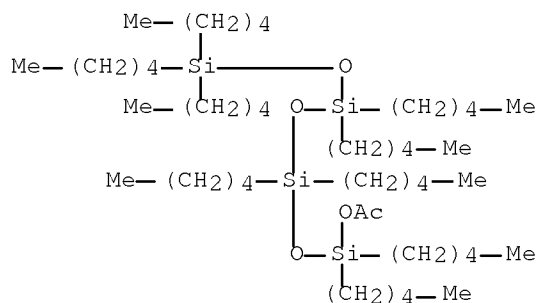
RN 718614-16-5 HCAPLUS

CN Silanol, 1-[[1,1,3,3,5,5,5-heptakis(2-methylpropyl)-1-trisiloxanyl]oxy]-1,1-bis(2-methylpropyl)-, 1-acetate (CA INDEX NAME)



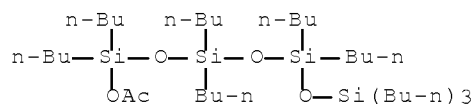
RN 718614-17-6 HCAPLUS

CN Silanol, 1-[(1,1,3,3,5,5,5-heptapentyl-1-trisiloxanyl)oxy]-1,1-dipentyl-, 1-acetate (CA INDEX NAME)



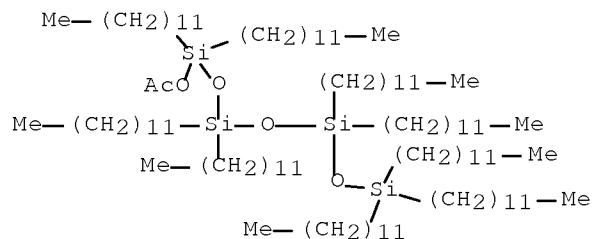
RN 718614-18-7 HCAPLUS

CN Silanol, 1,1-dibutyl-1-[(1,1,3,3,5,5,5-heptabutyl-1-trisiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



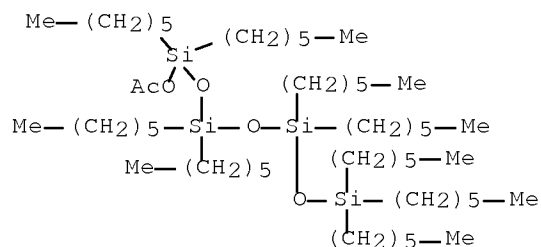
RN 718614-19-8 HCAPLUS

CN Silanol, 1,1-didodecyl-1-[(1,1,3,3,5,5,5-heptadodecyl-1-trisiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



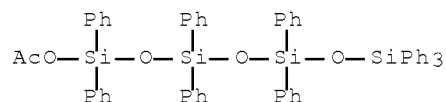
RN 718614-20-1 HCAPLUS

CN Silanol, 1-[(1,1,3,3,5,5,5-heptahexyl-1-trisiloxanyl)oxy]-1,1-dihexyl-,  
1-acetate (CA INDEX NAME)



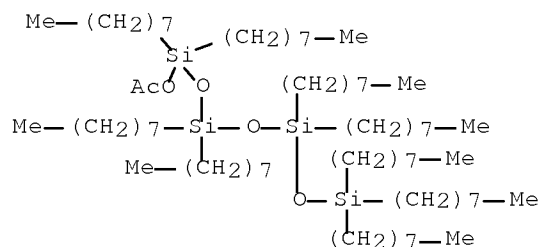
RN 718614-21-2 HCAPLUS

CN Silanol, 1-[(1,1,3,3,5,5,5-heptaphenyl-1-trisiloxanyl)oxy]-1,1-diphenyl-,  
1-acetate (CA INDEX NAME)



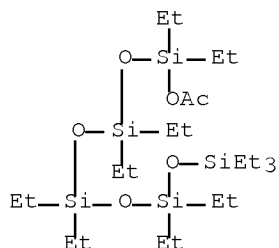
RN 718614-22-3 HCAPLUS

CN Silanol, 1-[(1,1,3,3,5,5,5-heptaooctyl-1-trisiloxanyl)oxy]-1,1-dioctyl-,  
1-acetate (CA INDEX NAME)



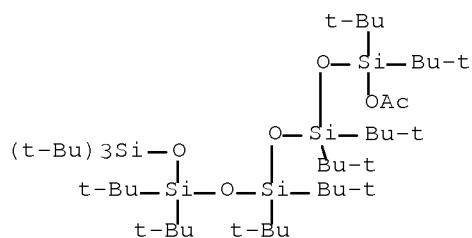
RN 718614-23-4 HCAPLUS

CN Silanol, 1,1-diethyl-1-[(1,1,3,3,5,5,7,7,7-nonaethyl-1-tetrasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



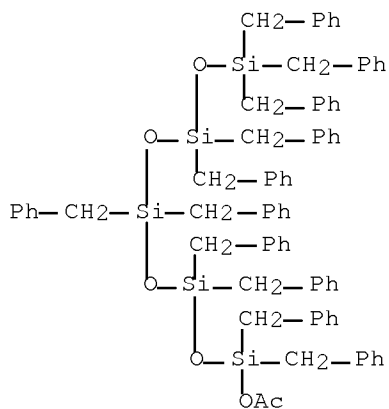
RN 718614-24-5 HCAPLUS

CN Silanol, 1,1-bis(1,1-dimethylethyl)-1-[[1,1,3,3,5,5,7,7,7-nonakis(1,1-dimethylethyl)-1-tetrasiloxanyl]oxy]-, 1-acetate (CA INDEX NAME)

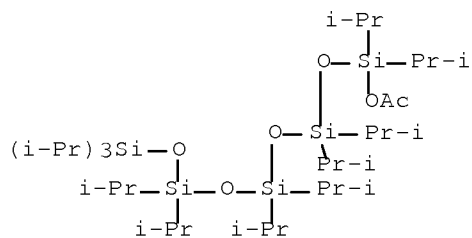


RN 718614-25-6 HCAPLUS

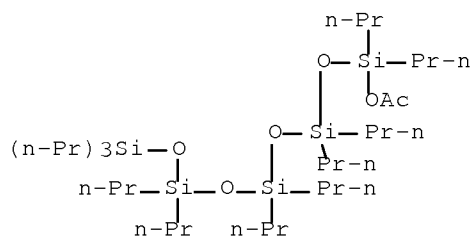
CN Silanol, 1-[[1,1,3,3,5,5,7,7,7-nonakis(phenylmethyl)-1-tetrasiloxanyl]oxy]-1,1-bis(phenylmethyl)-, 1-acetate (CA INDEX NAME)



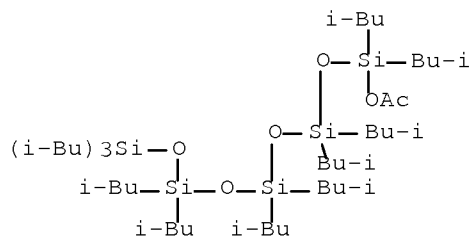
RN 718614-26-7 HCAPLUS  
 CN Silanol, 1,1-bis(1-methylethyl)-1-[[1,1,3,3,5,5,7,7,7-nonakis(1-methylethyl)-1-tetrasiloxanyl]oxy]-, 1-acetate (CA INDEX NAME)



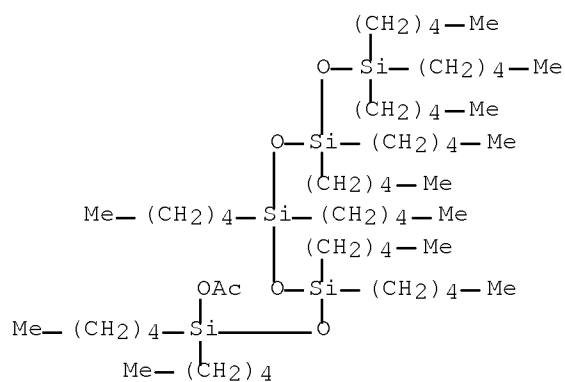
RN 718614-27-8 HCAPLUS  
 CN Silanol, 1-[(1,1,3,3,5,5,7,7,7-nonapropyl-1-tetrasiloxanyl)oxy]-1,1-dipropyl-, 1-acetate (CA INDEX NAME)



RN 718614-28-9 HCAPLUS  
 CN Silanol, 1,1-bis(2-methylpropyl)-1-[[1,1,3,3,5,5,7,7,7-nonakis(2-methylpropyl)-1-tetrasiloxanyl]oxy]-, 1-acetate (CA INDEX NAME)

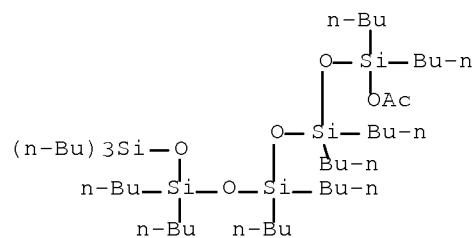


RN 718614-29-0 HCAPLUS  
 CN Silanol, 1-[(1,1,3,3,5,5,7,7,7-nonapentyl-1-tetrasiloxanyl)oxy]-1,1-dipentyl-, 1-acetate (CA INDEX NAME)



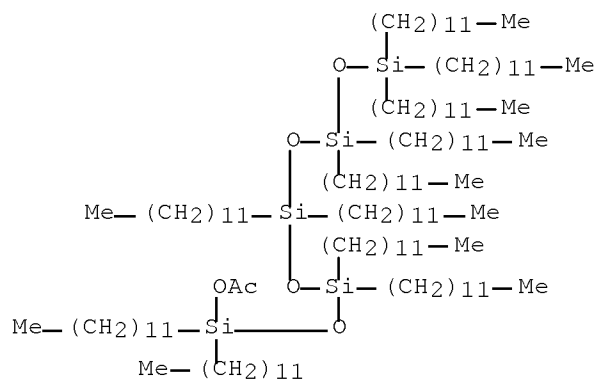
RN 718614-30-3 HCAPLUS

CN Silanol, 1,1-dibutyl-1-[(1,1,3,3,5,5,7,7,7-nonabutyl-1-tetrasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



RN 718614-31-4 HCAPLUS

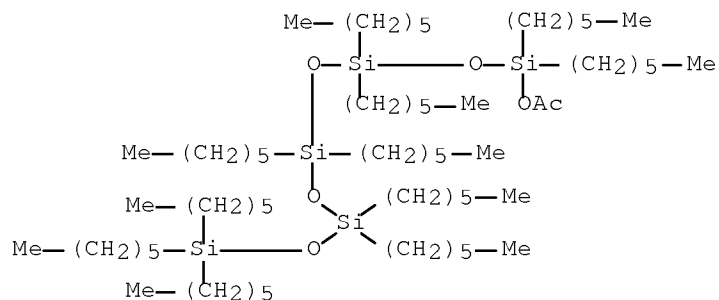
CN Silanol, 1,1-didodecyl-1-[(1,1,3,3,5,5,7,7,7-nonadodecyl-1-tetrasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



RN 718614-32-5 HCAPLUS

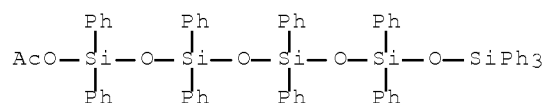
CN Silanol, 1,1-dihexyl-1-[(1,1,3,3,5,5,7,7,7-nonahexyl-1-tetrasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)





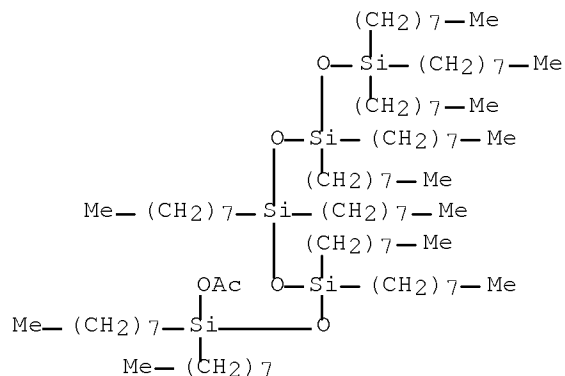
RN 718614-33-6 HCAPLUS

CN Silanol, 1-[(1,1,3,3,5,5,7,7,7-nona phenyl-1-tetrasiloxanyl)oxy]-1,1-diphenyl-, 1-acetate (CA INDEX NAME)



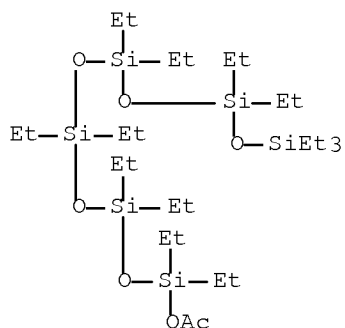
RN 718614-34-7 HCAPLUS

CN Silanol, 1-[(1,1,3,3,5,5,7,7,7-nona octyl-1-tetrasiloxanyl)oxy]-1,1-dioctyl-, 1-acetate (CA INDEX NAME)



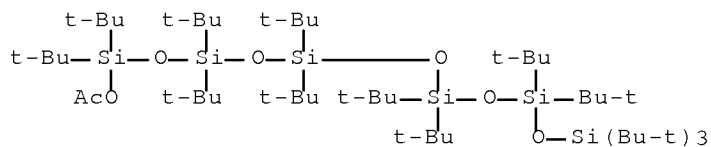
RN 718614-35-8 HCAPLUS

CN Silanol, 1,1-diethyl-1-[(1,1,3,3,5,5,7,7,9,9,9-undecaethyl-1-pentasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



RN 718614-36-9 HCAPLUS

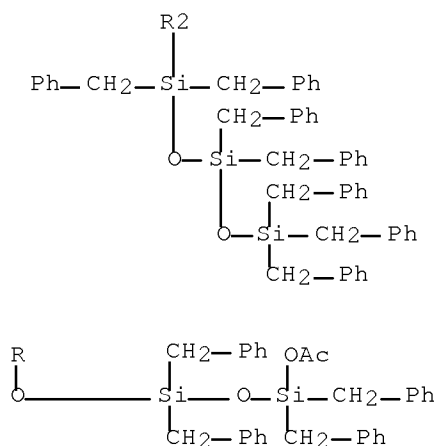
CN Silanol, 1,1-bis(1,1-dimethylethyl)-1-[[1,1,3,3,5,5,7,7,9,9,9-undecakis(1,1-dimethylethyl)-1-pentasiloxanyl]oxy]-, 1-acetate (CA INDEX NAME)

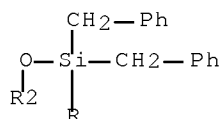


RN 718614-37-0 HCAPLUS

CN Silanol, 1,1-bis(phenylmethyl)-1-[[1,1,3,3,5,5,7,7,9,9,9-undecakis(phenylmethyl)-1-pentasiloxanyl]oxy]-, 1-acetate (CA INDEX NAME)

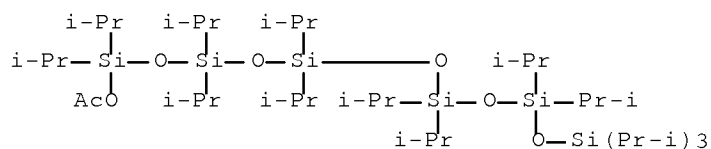
PAGE 1-A





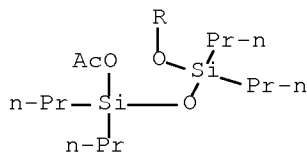
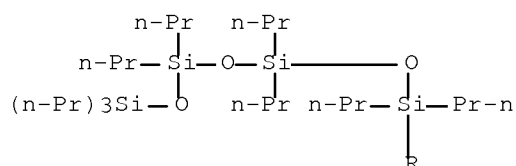
RN 718614-38-1 HCAPLUS

CN Silanol, 1,1-bis(1-methylethyl)-1-[[1,1,3,3,5,5,7,7,9,9,9-undecakis(1-methylethyl)-1-pentasiloxanyl]oxy]-, 1-acetate (CA INDEX NAME)



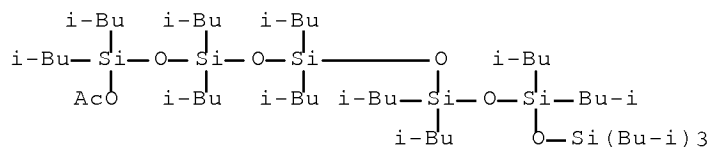
RN 718614-39-2 HCAPLUS

CN Silanol, 1,1-dipropyl-1-[(1,1,3,3,5,5,7,7,9,9,9-undecapropyl-1-pentasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



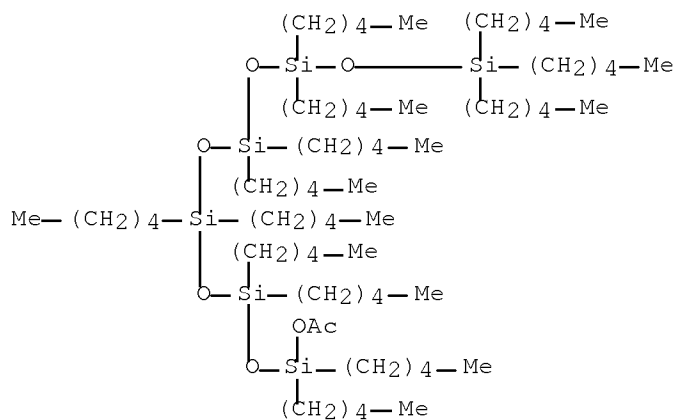
RN 718614-40-5 HCAPLUS

CN Silanol, 1,1-bis(2-methylpropyl)-1-[[1,1,3,3,5,5,7,7,9,9,9-undecakis(2-methylpropyl)-1-pentasiloxanyl]oxy]-, 1-acetate (CA INDEX NAME)



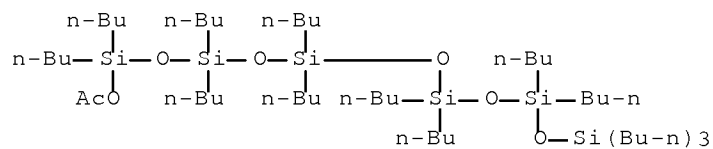
RN 718614-41-6 HCAPLUS

CN Silanol, 1,1-dipentyl-1-[(1,1,3,3,5,5,7,7,9,9,9-undecapentyl-1-pentasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



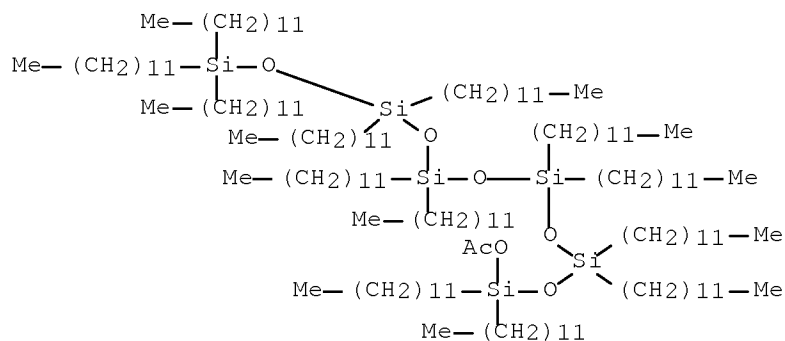
RN 718614-42-7 HCAPLUS

CN Silanol, 1,1-dibutyl-1-[(1,1,3,3,5,5,7,7,9,9,9-undecabutyl-1-pentasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



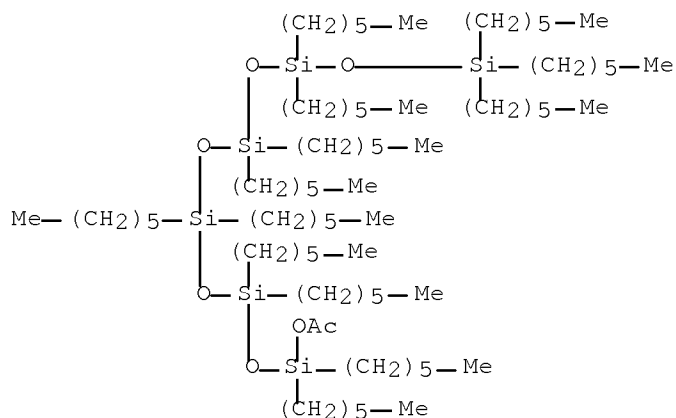
RN 718614-43-8 HCAPLUS

CN Silanol, 1,1-didodecyl-1-[(1,1,3,3,5,5,7,7,9,9,9-undecadodecyl-1-pentasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



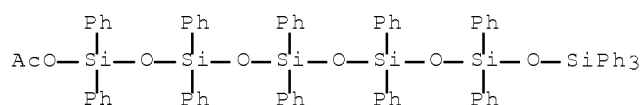
RN 718614-44-9 HCAPLUS

CN Silanol, 1,1-dihexyl-1-[(1,1,3,3,5,5,7,7,9,9,9-undecahexyl-1-pentasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



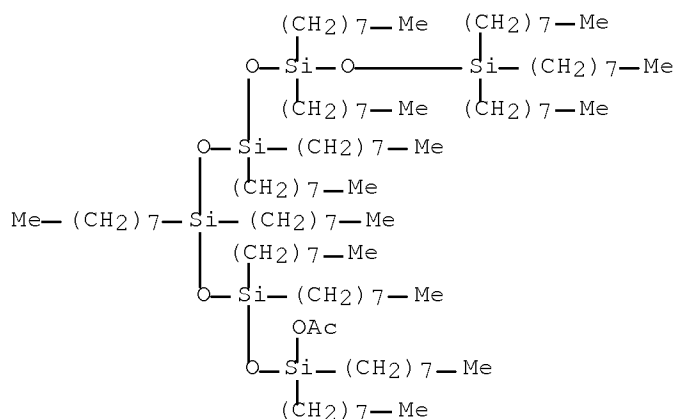
RN 718614-45-0 HCAPLUS

CN Silanol, 1,1-diphenyl-1-[(1,1,3,3,5,5,7,7,9,9,9-undecaphenyl-1-pentasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



RN 718614-46-1 HCAPLUS

CN Silanol, 1,1-diethyl-1-[(1,1,3,3,5,5,7,7,9,9,9-undecaethyl-1-pentasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



## Serial No.:10/555,857

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2004:823973 HCAPLUS Full-text  
 DOCUMENT NUMBER: 141:333670  
 TITLE: Preparation of poly(siloxo esters), and their use as coating or film of implantable device  
 INVENTOR(S): Vos, Marcel; Plehiers, Mark; Gillard, Michel  
 PATENT ASSIGNEE(S): Sigmakalon Services B.V., Neth.  
 SOURCE: PCT Int. Appl., 46 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004085560	A1	20041007	WO 2004-EP3258	20040326 ←
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1608716	A1	20051228	EP 2004-723592	20040326 ←
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
CN 1764705	A	20060426	CN 2004-80008138	20040326 ←
JP 2006521438	T	20060921	JP 2006-504882	20040326 ←
KR 2006022228	A	20060309	KR 2005-717985	20050924 ←
US 20060241240	A1	20061026	US 2006-550834	20060609 ←
PRIORITY APPLN. INFO.:			EP 2003-251907	A 20030326 ←
			WO 2004-EP3258	W 20040326

ED Entered STN: 08 Oct 2004

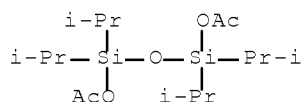
AB The preparation of poly(silyl ester)s comprises the steps of reacting a polyacid with a polyacyloxysilyl derivative while removing the formed acid group(s) e.g. carboxylic acid, from the transesterification system with or without solvents. Thus, 40 g 1,3-diacetoxytetraisopropylidisiloxane, preparation given, and 16.06 g adipic acid were heated at 145-180°, while HOAc was distilled out of the reactor over 6 h to give polymer with a solid content 96.1%, mol. Weight 4000 Daltons, and a viscosity 80 dPa.s.

IT 769957-73-SP

RL: RCT (Reactant); SPN (Synthetic preparation); PREF (Preparation); RACT (Reactant or reagent)  
 (preparation of poly(siloxo esters) for coatings)

RN 769957-73-5 HCAPLUS

CN 1,3-Disiloxanediol, 1,1,3,3-tetrakis(1-methylethyl)-, diacetate (9CI) (CA INDEX NAME)



IT 769957-74-6P 769957-77-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of poly(siloxy esters) for coatings)

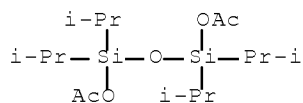
RN 769957-74-6 HCAPLUS

CN Hexanedioic acid, polymer with 1,1,3,3-tetrakis(1-methylethyl)-1,3-disiloxanediyl diacetate (9CI) (CA INDEX NAME)

CM 1

CRN 769957-73-5

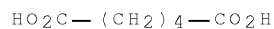
CMF C16 H34 O5 Si2



CM 2

CRN 124-04-9

CMF C6 H10 O4



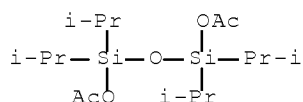
RN 769957-77-9 HCAPLUS

CN Acetic acid, \_ydroxyl-, polymer with dihydro-2,5-furandione, (3S,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione and 1,1,3,3-tetrakis(1-methylethyl)-1,3-disiloxanediyl diacetate (9CI) (CA INDEX NAME)

CM 1

CRN 769957-73-5

CMF C16 H34 O5 Si2

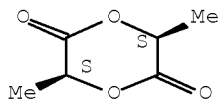


CM 2

CRN 4511-42-6

CMF C6 H8 O4

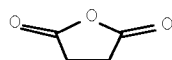
Absolute stereochemistry.



CM 3

CRN 108-30-5

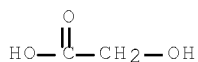
CMF C4 H4 O3



CM 4

CRN 79-14-1

CMF C2 H4 O3



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:796314 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 141:296470

TITLE: A process for the protection of acid groups in polymers with trihydrocarbyl silyl groups and its application

PATENT ASSIGNEE(S): Sigma Kalon Services B.V., Neth.

SOURCE: Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

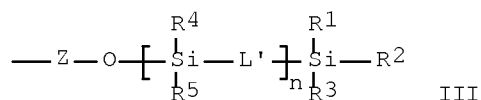
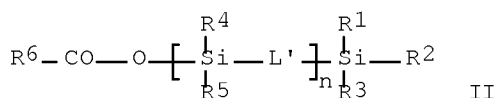
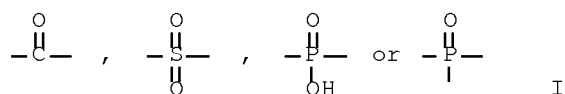
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## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 1462472	A1	20040929	EP 2003-251912	20030326
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
WO 2004085518	A1	20041007	WO 2004-EP3257	20040326
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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EP 1606338	A1	20051221	EP 2004-723588	20040326
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PRIORITY APPLN. INFO.:			EP 2003-251912	A 20030326
			WO 2004-EP3257	W 20040326

ED Entered STN: 30 Sep 2004  
GI



AB A process for the protection of acid group containing side chains and/or terminal acid groups on polymers is by reaction of at least one polymer acid group of  $-\text{Z}-\text{OH}$  wherein Z is represented by formula I, with a monoacyloxysilyl compound of formula II, while removing the formed acid group of formula  $\text{R}^6\text{CO}_2\text{H}$  from the system to produce at least one protected acid group of formula III. In formula II and III,  $\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$ ,  $\text{R}^4$ ,  $\text{R}^5$  each independently represent hydrogen, hydroxyl, alkyl, alkenyl, alkynyl, aryl or aralkyl radical optionally substituted, in the case of the hydrocarbyl radicals, by one or more substituents independently selected from the group comprising alkyl, alkoxy, aralkyl, aralkyloxy, aryl, aryloxy, hydroxyl, halogen, amino or amino alkyl radicals;  $\text{R}^4$  and  $\text{R}^5$  may also independently represent  $-\text{L}'-(\text{Si} \text{R}^4 \text{R}^5 \text{L}')_n-\text{Si} \text{R}^1 \text{R}^2 \text{R}^3$ , wherein  $\text{R}^1$ ,  $\text{R}^2$ ,  $\text{R}^3$ ,  $\text{R}^4$  and  $\text{R}^5$  are as defined above;  $\text{L}'$  represents O, S, or  $\text{NR}^7$ , where  $\text{R}^7$  is defined as  $\text{R}^6$  below; n represents a

number of dihydrocarbylsiloxane units from 0 to 1000; and R6 is an hydrogen atom, an alkyl, aralkyl or aryl, alkenyl or alkynyl group optionally substituted, in the case of the hydrocarbyl radicals, with one or more substituents selected from the equivalent substituents as detailed for R1-R5 above.

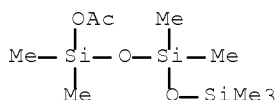
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RL: RCT (Reactant); RACT (Reactant or reagent)

(protection of acid groups in polymers with trihydrocarbyl silyl groups)

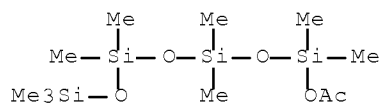
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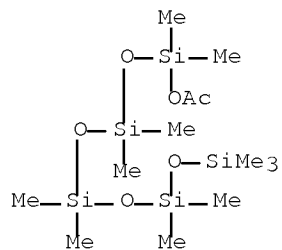
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CN 1-Tetrasiloxanol, 1,1,3,3,5,5,7,7,7-nonamethyl-, 1-acetate (CA INDEX NAME)



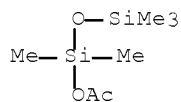
RN 3560-95-0 HCAPLUS

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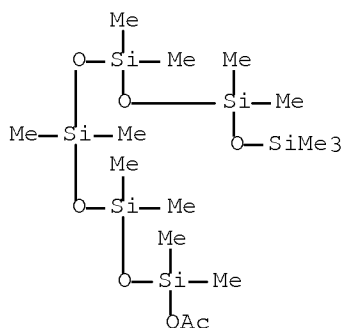
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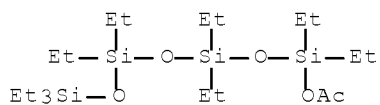
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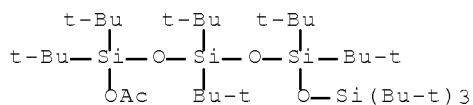
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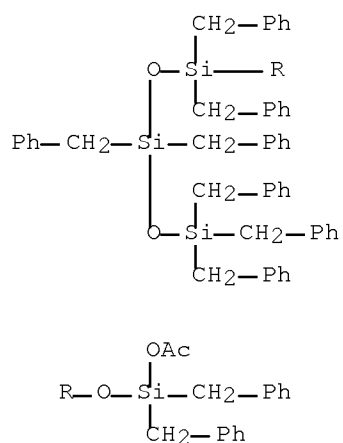
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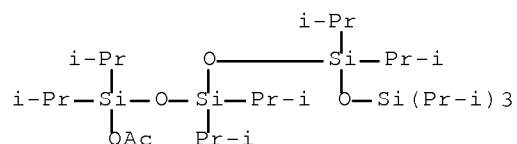
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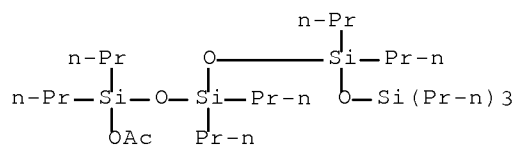
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CN Silanol, 1-[[1,1,3,3,5,5,5-heptakis(1-methylethyl)-1-trisiloxanyl]oxy]-1,1-bis(1-methylethyl)-, 1-acetate (CA INDEX NAME)



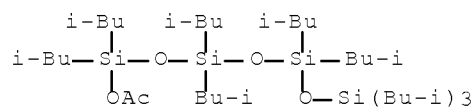
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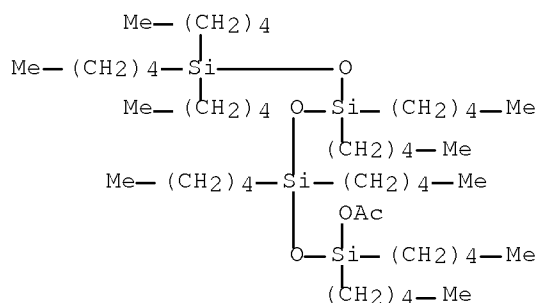
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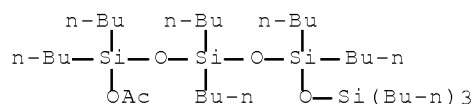
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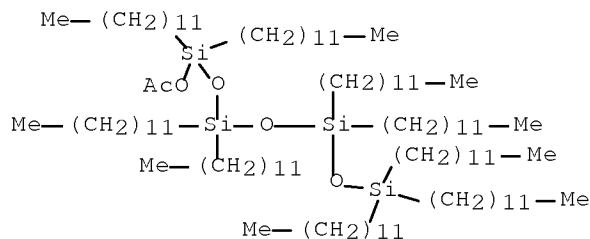
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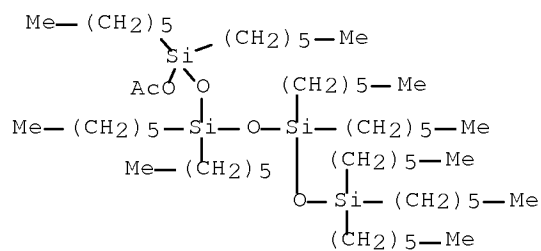
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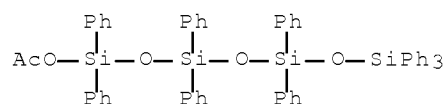
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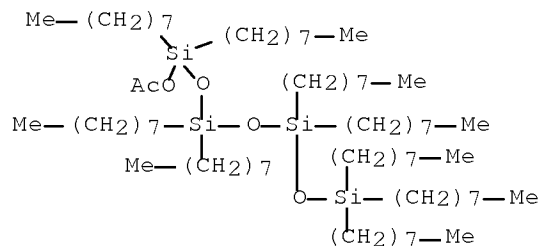
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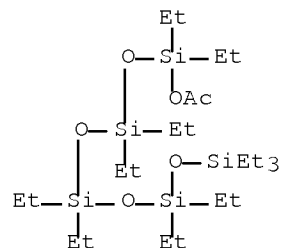
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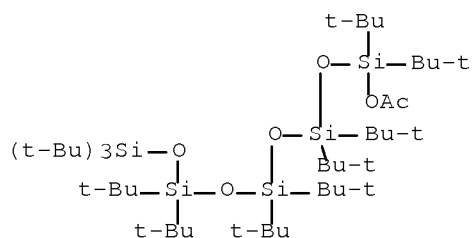
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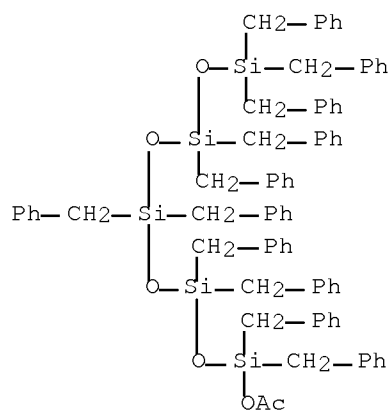
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CN Silanol, 1,1-bis(1,1-dimethylethyl)-1-[[[1,1,3,3,5,5,7,7,7-nonakis(1,1-dimethylethyl)-1-tetrasiloxanyl]oxy]-, 1-acetate (CA INDEX NAME)



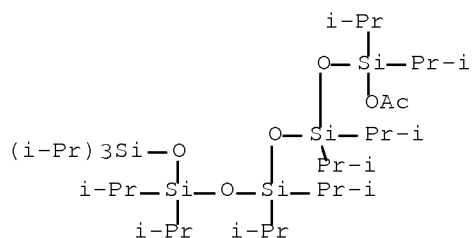
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CN Silanol, 1-[[[1,1,3,3,5,5,7,7,7-nonakis(phenylmethyl)-1-tetrasiloxanyl]oxy]-1,1-bis(phenylmethyl)-, 1-acetate (CA INDEX NAME)



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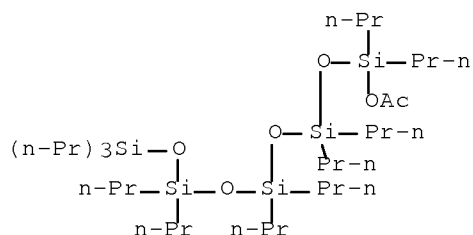
CN Silanol, 1,1-bis(1-methylethyl)-1-[[[1,1,3,3,5,5,7,7,7-nonakis(1-methylethyl)-1-tetrasiloxanyl]oxy]-, 1-acetate (CA INDEX NAME)



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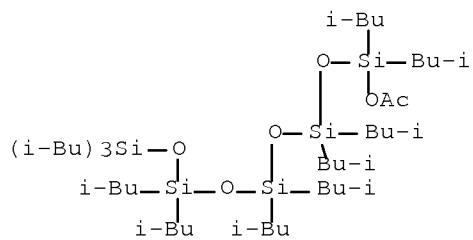


CN Silanol, 1-[(1,1,3,3,5,5,7,7,7-nonapropyl-1-tetrasiloxanyl)oxy]-1,1-dipropyl-, 1-acetate (CA INDEX NAME)



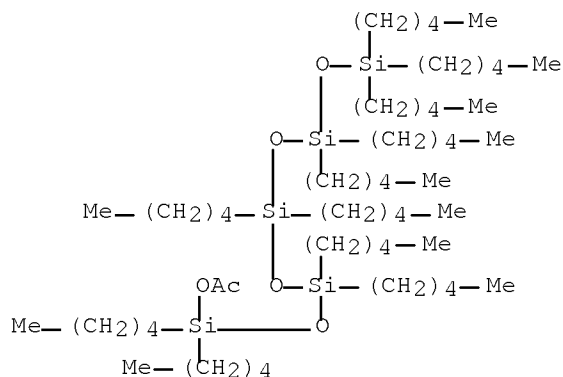
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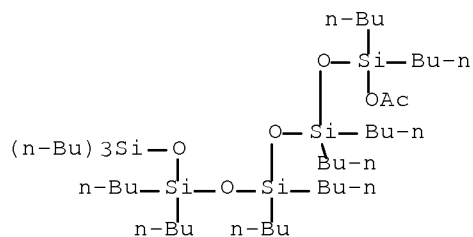
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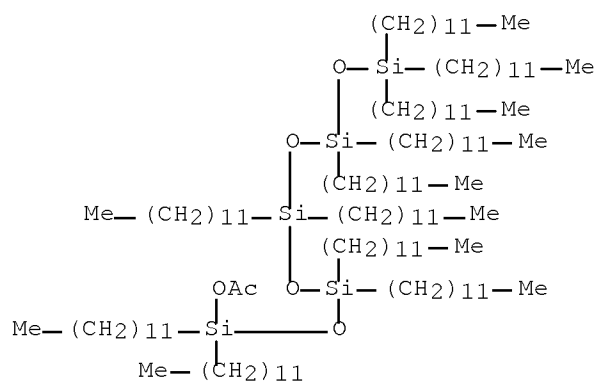
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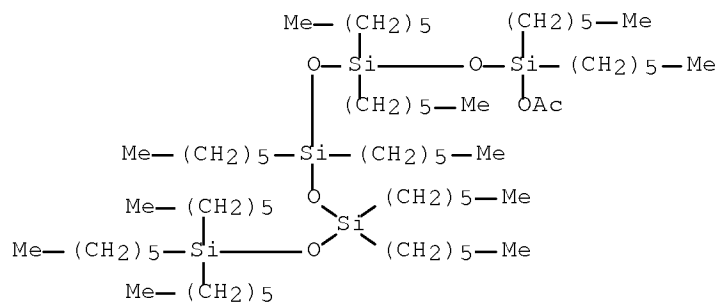
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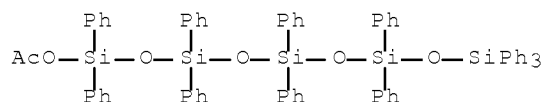
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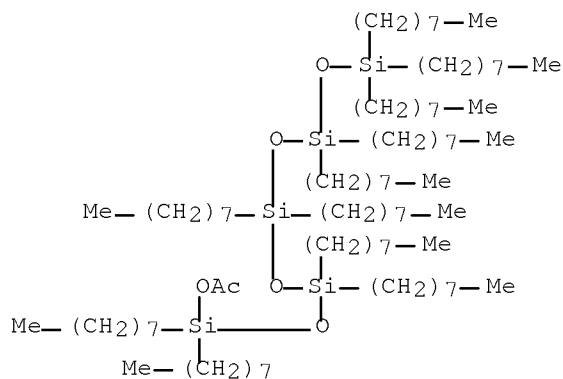
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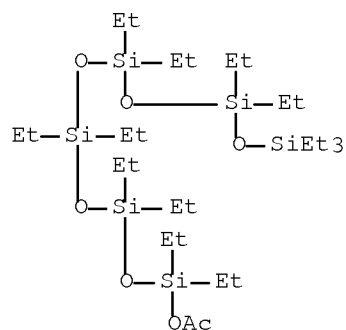
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CN Silanol, 1-[(1,1,3,3,5,5,7,7,7-nonaoctyl-1-tetrasiloxanyl)oxy]-1,1-dioctyl-, 1-acetate (CA INDEX NAME)



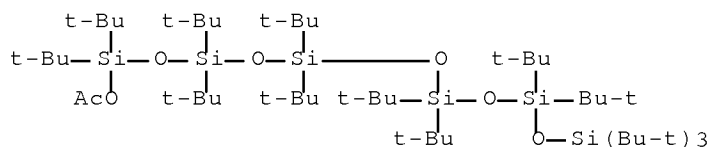
RN 718614-35-8 HCAPLUS

CN Silanol, 1,1-diethyl-1-[(1,1,3,3,5,5,7,7,9,9,9-undecaethyl-1-pentasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



RN 718614-36-9 HCAPLUS

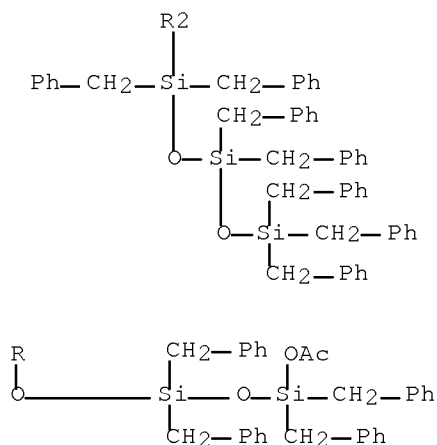
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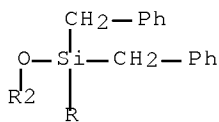
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PAGE 1-A

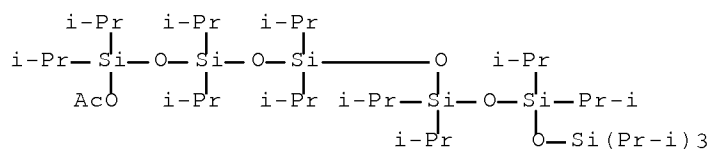


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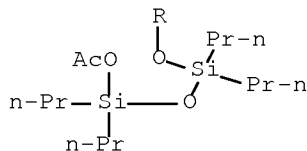
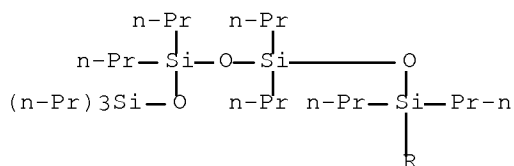
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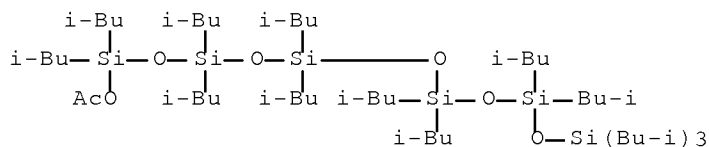
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CN Silanol, 1,1-dipropyl-1-[(1,1,3,3,5,5,7,7,9,9,9-undecapropyl-1-pentasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



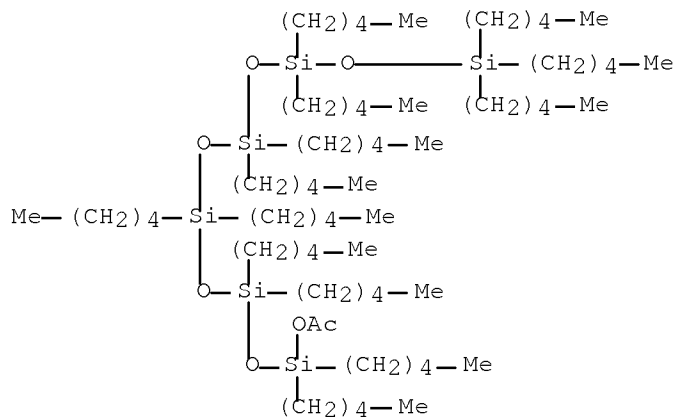
RN 718614-40-5 HCAPLUS

CN Silanol, 1,1-bis(2-methylpropyl)-1-[[1,1,3,3,5,5,7,7,9,9,9-undecakis(2-methylpropyl)-1-pentasiloxanyl]oxy]-, 1-acetate (CA INDEX NAME)



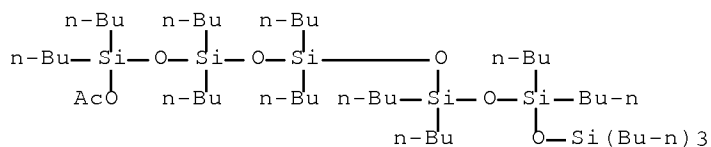
RN 718614-41-6 HCAPLUS

CN Silanol, 1,1-dipentyl-1-[(1,1,3,3,5,5,7,7,9,9,9-undecapentyl-1-pentasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



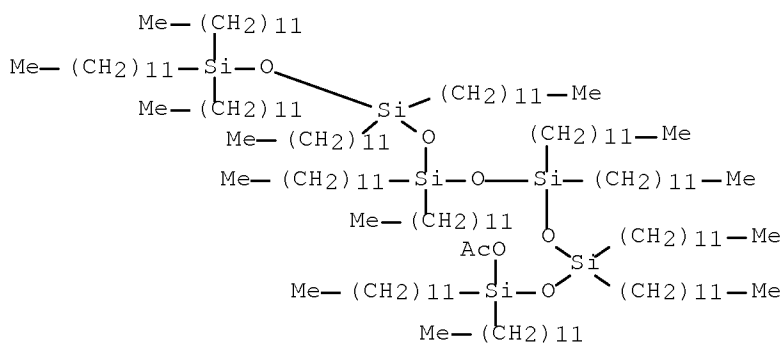
RN 718614-42-7 HCAPLUS

CN Silanol, 1,1-dibutyl-1-[(1,1,3,3,5,5,7,7,9,9,9-undecabutyl-1-pentasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



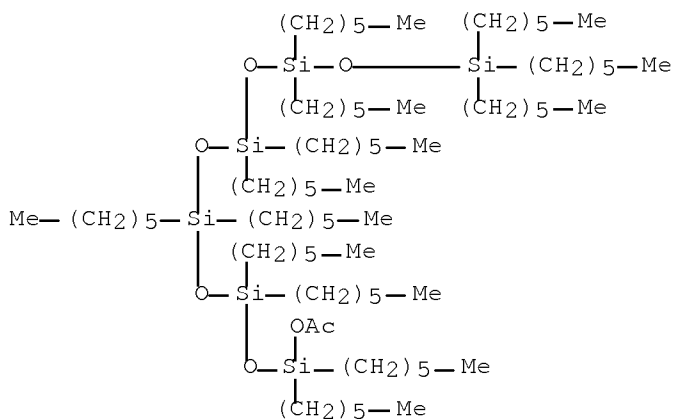
RN 718614-43-8 HCAPLUS

CN Silanol, 1,1-didodecyl-1-[(1,1,3,3,5,5,7,7,9,9,9-undecadodecyl-1-pentasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



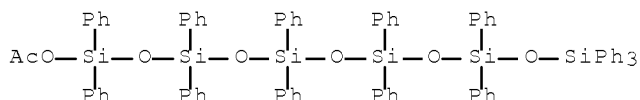
RN 718614-44-9 HCAPLUS

CN Silanol, 1,1-dihexyl-1-[(1,1,3,3,5,5,7,7,9,9,9-undecahexyl-1-pentasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



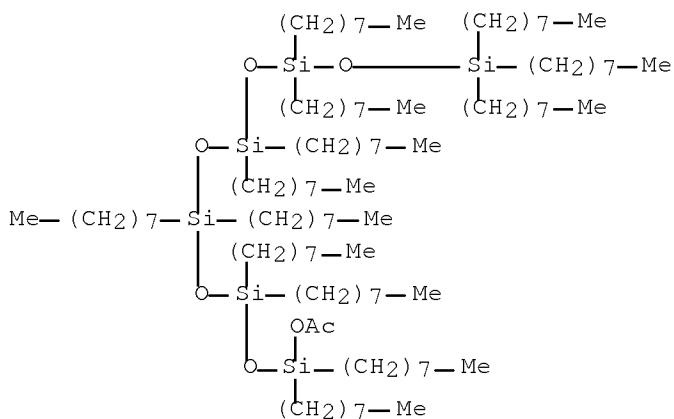
RN 718614-45-0 HCAPLUS

CN Silanol, 1,1-diphenyl-1-[(1,1,3,3,5,5,7,7,9,9,9-undecaphenyl-1-pentasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



RN 718614-46-1 HCAPLUS

CN Silanol, 1,1-dioctyl-1-[(1,1,3,3,5,5,7,7,9,9,9-undecaoctyl-1-pentasiloxanyl)oxy]-, 1-acetate (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:36721 HCAPLUS [Full-text](#)

DOCUMENT NUMBER: 140:77954

TITLE: Process for the preparation of polyorganosilylated carboxylate monomers or polymers thereof

INVENTOR(S): Plehiers, Mark; Gilliard, Michel

PATENT ASSIGNEE(S): Sigmakalon Group B. V., Neth.

SOURCE: Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1380611	A1	20040114	EP 2002-254861	20020710 ←
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
WO 2004007591	A1	20040122	WO 2003-EP7360	20030709 ←

Serial No.:10/555,857

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003250918 A1 20040202 AU 2003-250918 20030709 ←  
 EP 1539861 A1 20050615 EP 2003-763756 20030709 ←  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

JP 2005537335 T 20051208 JP 2005-505062 20030709 ←  
 EP 1795551 A1 20070613 EP 2007-4596 20030709 ←  
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PT, RO, SE, SI, SK, TR

US 20060142516 A1 20060629 US 2005-520636 20050805 ←  
 JP 2007262063 A 20071011 JP 2007-61671 20070312 ←  
 US 20070196326 A1 20070823 US 2007-726130 20070321 ←  
 KR 2007047851 A 20070507 KR 2007-708062 20070409 ←

PRIORITY APPLN. INFO.: EP 2002-254861 A 20020710 ←  
 EP 2002-255549 A 20020808 ←  
 EP 2003-763756 A3 20030709 ←  
 JP 2005-505062 A3 20030709 ←  
 WO 2003-EP7360 W 20030709 ←  
 KR 2005-700421 A3 20050110  
 US 2005-520636 A1 20050805

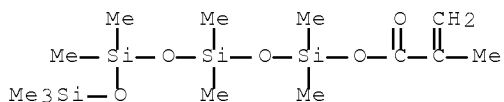
ED Entered STN: 16 Jan 2004

AB The title process comprises the steps of reacting a cyclosiloxane of formula (R<sub>4</sub>R<sub>5</sub>SiO)<sub>n</sub> with an unsatd. Organosilylated carboxylate monomer or a copolymer or a polymer thereof in the presence of a suitable catalyst. The products obtained are used as antifouling coatings for underwater structures. Thus, telomerization of hexamethylcyclotrisiloxane with trimethylsilyl methacrylate in the presence of ZnCl<sub>2</sub> and 4-methoxyphenol in PhMe gave nonamethyl-1-methacryloyloxytetrasiloxane.

IT 640772-61-8P 640772-62-9P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (monomers; process for preparation of polyorganosilylated carboxylate monomers or polymers thereof)

RN 640772-61-8 HCAPLUS

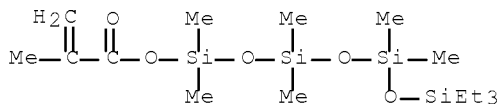
CN 2-Propenoic acid, 2-methyl-, 1,1,3,3,5,5,7,7,7-nonamethyl-1-tetrasiloxanyl ester (CA INDEX NAME)



RN 640772-62-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 7,7,7-triethyl-1,1,3,3,5,5-hexamethyltetrasiloxanyl ester (9CI) (CA INDEX NAME)





REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2000:456741 HCAPLUS Full-text

DOCUMENT NUMBER: 133:89953

TITLE: Silyl (meth)acrylate copolymers, their preparation, and antifouling paint compositions for hulls or underwater structures

INVENTOR(S): Tsuboi, Makoto; Yoshikawa, Eiichi; Arimura, Hidetaka; Hamazu, Fumio; Nakamura, Naoya; Hikiji, Yasuto; Oya, Masaaki; Hiyoshi, Satoshi; Kozono, Yukio

PATENT ASSIGNEE(S): Chugoku Marine Paints, Ltd., Japan

SOURCE: Eur. Pat. Appl., 91 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1016681	A2	20000705	EP 1999-310578	19991224
EP 1016681	A3	20001227		
EP 1016681	B1	20050817		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
KR 2000048359	A	20000725	KR 1999-60851	19991223
ZA 9907857	A	20010625	ZA 1999-7857	19991223
CA 2293124	A1	20000628	CA 1999-2293124	19991224
CA 2293124	C	20050607		
AU 9965498	A	20000720	AU 1999-65498	19991224
AU 742725	B2	20020110		
JP 2000248029	A	20000912	JP 1999-365889	19991224
JP 2000248228	A	20000912	JP 1999-365890	19991224
JP 2000265107	A	20000926	JP 1999-365891	19991224
JP 2001026621	A	20010130	JP 1999-365789	19991224
JP 2001026729	A	20010130	JP 1999-365790	19991224
ES 2247765	T3	20060301	ES 1999-310578	19991224
IN 1999BO00954	A	20070803	IN 1999-BO954	19991224
TR 9903274	A2	20001121	TR 1999-3274	19991227
SG 85690	A1	20020115	SG 1999-6646	19991227
TW 473490	B	20020121	TW 1999-88122984	19991227
US 6458878	B1	20021001	US 1999-472229	19991227
NO 325387	B1	20080414	NO 1999-6489	19991227
CN 1258687	A	20000705	CN 1999-127470	19991228
CN 1170860	C	20041013		
HK 1025340	A1	20051014	HK 2000-104563	20000724
IN 2004MU01046	A	20070608	IN 2004-MU1046	20040930
PRIORITY APPLN. INFO.:			JP 1998-374875	A 19981228
			JP 1998-374876	A 19981228

Serial No.:10/555,857

JP 1999-4372 A 19990111  
 JP 1999-133184 A 19990513  
 JP 1999-133307 A 19990513  
 IN 1999-MU954 A3 19991224

ED Entered STN: 07 Jul 2000

AB A silyl (meth)acrylate copolymer comprises (a) silyl (meth)acrylate constituent units of  $\text{CH}_2\text{CR}_1(\text{COOSiR}_2\text{R}_3\text{R}_4)$  wherein  $\text{R}_1$  is H or Me,  $\text{R}_2$ -4 are alkyl, cycloalkyl, (substituted) Ph, (b) acrylic unsatd. Monomer constituent units of formula  $\text{CHCR}_5\text{COZ}$  wherein  $\text{R}_5$  is H or Me,  $\text{Z}$  is  $\text{OR}_6$  or  $\text{NHR}_7$ ,  $\text{R}_6$  is (substituted) hydroxyalkyl, etc.,  $\text{R}_7$  is substituted alkyl, and (c) unsatd. Monomer constituent units other than the constituent units (a) and (b). The total amount of the constituent units (a), (b) and (c) is 100 %; and the polymer has a weight-average mol. Weight  $\leq 200,000$ . A polymer was prepared from 2-hydroxypropyl acrylate, Me methacrylate, and triisopropylsilyl acrylate.

IT 280555-90-0P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (silyl (meth)acrylate copolymers, their preparation, and antifouling paint comps. For hulls or underwater structures)

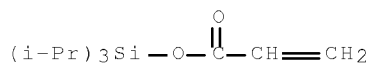
RN 280555-90-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with pentamethyldisiloxanyl 2-methyl-2-propenoate and tris(1-methylethyl)silyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 157859-20-6

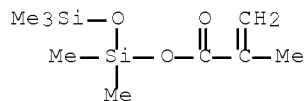
CMF C12 H24 O2 Si



CM 2

CRN 4880-04-0

CMF C9 H20 O3 Si2



CM 3

CRN 80-62-6

CMF C5 H8 O2



REFERENCE COUNT :

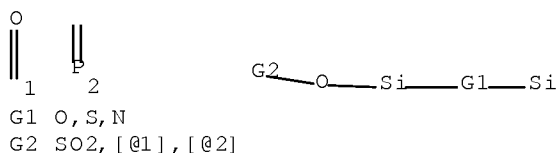
6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

## Structure Search

=&gt; D STAT QUE L37

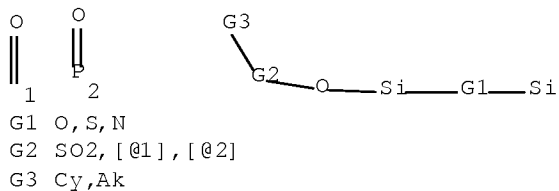
L3 STR



Structure attributes must be viewed using STN Express query preparation.

L4 ( 529)SEA FILE=REGISTRY SSS FUL L3

L5 STR



Structure attributes must be viewed using STN Express query preparation.

L6	422	SEA FILE=REGISTRY SUB=L4 SSS FUL L5
L15	167	SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L6 (L)PREP/RL
L19	310	SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L6
L23	25	SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L19 AND 42/SC, SX
L24	8	SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L15 AND 42/SC, SX
L25	4129	SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON ANTIFOULING AGENTS+OLD ,NT/CT
L26	1	SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L15 AND L25
L27	1	SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L19 AND L25
L28	25	SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON (L23 OR L24 OR L26 OR L27)
L29	17	SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L28 AND (PRY<=2003 OR PY<=2003 OR AY<=2003 OR PD<=2003)
L34	10201	SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON ANTIFOUL?/BI
L35	9	SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON (L15 OR L19) AND L34
L36	6	SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L35 AND (PRY<=2003 OR PY<=2003 OR AY<=2003 OR PD<=2003)
L37	18	SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON (L29 OR L36)

=&gt; S L37 NOT L33

L38 12 L37 NOT L33

=&gt; D IBIB ED ABS HITSTR 1-12

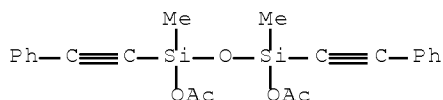
L38 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2002:98756 HCAPLUS Full-text  
 DOCUMENT NUMBER: 136:152837

## Serial No.:10/555,857

TITLE: Composition for film formation and material for formation of insulating film between the layer of semiconductor element  
INVENTOR(S): Okada, Takashi; Nishikawa, Michinori; Yamada, Kinji  
PATENT ASSIGNEE(S): JSR Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2002038081	A	20020206	JP 2000-221661	20000724 <--

PRIORITY APPLN. INFO.: JP 2000-221661 20000724 <--  
ED Entered STN: 06 Feb 2002  
AB The composition comprises (A) an aromatic polyarylene and/or an aromatic polyarylene ether, (B) a reactive silane coupling agent or its hydrolized condensate, and (C) an organic solvent. Thus, a composition was made from a copolymer of 9,9-bis(4-methylsulfonyloxyphenyl)fluorene and 2,4-dichlorotoluene 2, and vinyltrimethoxysilane 0.04 g in 18 g cyclohexanone.  
IT ~~395069-07-5~~  
RL: MOA (Modifier or additive use); USES (Uses)  
(composition for film formation and material for formation of insulating film between the layer of semiconductor element)  
RN 395069-07-5 HCAPLUS  
CN 1,3-Disiloxanediol, 1,3-dimethyl-1,3-bis(phenylethynyl)-, diacetate (9CI)  
(CA INDEX NAME)



L38 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 1999:104666 HCAPLUS Full-text  
DOCUMENT NUMBER: 130:197972  
TITLE: moisture-curable one-liquid polyurethane sealing composition and its production  
INVENTOR(S): Isaka, Akinada; Ishikawa, Kazunori  
PATENT ASSIGNEE(S): Yokohama Rubber Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 11035819	A	19990209	JP 1997-193704	19970718 <--

PRIORITY APPLN. INFO.: JP 1997-193704 19970718 <--  
ED Entered STN: 16 Feb 1999

AB The title composition, with rapid setting and good storage stability, is prepared from (a) 100 parts isocyanate-terminated polyurethane prepolymers, (b) oxazoline derivs. [e.g., 2-phenyl-N-(2-hydroxyethyl)oxazolidine], (c) 0.1-20 parts C10-20 hydrocarbyloxy-based silyl ester-containing compds. [e.g., trimethylsilyl-terminated Me (stearoyloxy) polysiloxane], and (d) 0.01-10 parts C1-10 hydrocarbyloxy-based silyl ester-containing compds. [e.g., trimethylsilyl-terminated Me (capryloyloxy) polysiloxane, tris(acetyloxy) vinyl silane].

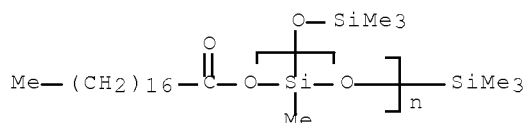
IT 1888884-81-3 220713-75-7

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(moisture-curable one-liquid polyurethane sealing composition and its use)

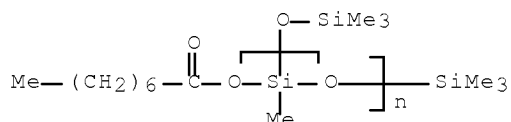
RN 188884-81-3 HCAPLUS

CN Poly[oxy[methyl[(1-oxooctadecyl)oxy]silylene]],  
 $\alpha$ -(trimethylsilyl)- $\omega$ -[(trimethylsilyl)oxy]- (9CI) (CA INDEX  
 NAME)



RN 220713-75-7 HCAPLUS

CN Poly[oxy[methyl[(1-oxooctyl)oxy]silylene]],  
 $\alpha$ -(trimethylsilyl)- $\omega$ -[(trimethylsilyl)oxy]- (9CI) (CA INDEX  
 NAME)



L38 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1997:470008 HCAPLUS Full-text

DOCUMENT NUMBER: 127:82909

ORIGINAL REFERENCE NO.: 127:15881a,15884a

TITLE: Method of making a polydiorganosiloxane-silica mixture, the resulting mixture and a room temperature curing sealant made therefrom

INVENTOR(S): Fisher, Mark David

PATENT ASSIGNEE(S): Dow Corning Corporation, USA

SOURCE: Eur. Pat. Appl., 9 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND	DATE
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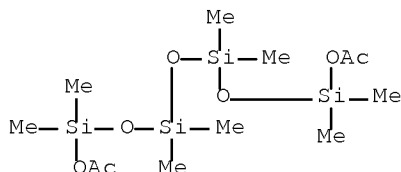
APPLICATION NO.

DATE \_\_\_\_\_

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EP 778307      A2      19970611      EP 1996-118821      19961125 <--
EP 778307      A3      19980318
      R:  DE, FR, GB, IT
US 5679725     A       19971021      US 1995-564755      19951129 <--
JP 09279031    A       19971028      JP 1996-318012      19961128 <--
PRIORITY APPLN. INFO.:      US 1995-564755      A  19951129 <--
OTHER SOURCE(S):      MARPAT 127:82909
ED  Entered STN:  26 Jul 1997
AB  A process of making a polydiorganosiloxane-silica mixture from a free-flowing,
      powdered, surface-modified, reinforcing silica-polydiorganosiloxane suitable,
      for example, for producing RTV silicone sealant compns. which are non-sag.
      These mixts. are made by combining, mixing and heating a reinforcing silica
      filler and a surface modifying agent at 90-180° using 0.1-0.5 part the surface
      modifying agent per one part the silica. Polydiorganosiloxane is added
      gradually to the resulting fluidized filler over a time period of less than 10
      min to yield the free flowing powdered reinforcing silica-
      polydiorganosiloxane. The final mixture is obtained by massing the
      concentrate and adding more polydiorganosiloxane to obtain a mixture which has
      from 8-20% silica filler. RTV silicone sealant compns. are obtained in 10 to
      15 min from the initiation of this process. In an example,  $\alpha,\omega$ -
      diacetoxy(octamethyltetrasiloxane) is used as the surface modifying agent for
      silica.
IT  3293-02-5
      RL: MOA (Modifier or additive use); USES (Uses)
      (surface modifier for silica; method of making
      polydiorganosiloxane-silica mixture for use in room temperature curing
      sealant)
RN  3293-02-5  HCAPLUS
CN  1,7-Tetrasiloxanediol, 1,1,3,3,5,5,7,7-octamethyl-, diacetate (8CI, 9CI)
      (CA INDEX NAME)

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L38  ANSWER 4 OF 12  HCAPLUS  COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:      1995:630316  HCAPLUS  Full-text
DOCUMENT NUMBER:      124:32137
ORIGINAL REFERENCE NO.: 124:6115a,6118a
TITLE:      Nonirritating ultraviolet-curable acrylic resin
              coatings
INVENTOR(S):      Kominami, Hiroshi; Saotome, Harumi
PATENT ASSIGNEE(S):  Sony Chemicals, Japan
SOURCE:      Jpn. Kokai Tokkyo Koho, 15 pp.
              CODEN: JKXXAF
DOCUMENT TYPE:      Patent
LANGUAGE:      Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

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## Serial No.:10/555,857

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07070472	A	19950314	JP 1994-144987	19940627 <--
JP 3381099	B2	20030224		
US 5663211	A	19970902	US 1996-645156	19960513 <--
PRIORITY APPLN. INFO.:			JP 1993-159173	A 19930629 <--
			JP 1994-144987	A 19940627 <--
			US 1994-355691	B1 19941214 <--

ED Entered STN: 22 Jun 1995

AB The title coatings contain 30-60 parts polyfunctional ( $\geq 3$ ) (meth)acrylate esters having primary irritation index (PII)  $\leq 2$ , 20-50 parts bifunctional (meth)acrylate esters having PII  $\leq 2$ , 5-25 parts (meth)acrylate having PII  $\leq 2$ , functional group-substituted di(meth)acrylates, and photopolymn. initiators. The coatings are useful for protecting optical compact recording disks, etc. Thus, ethylene oxide-modified trimethylolpropane triacrylate 40, MANDA 40, phenoxyethyl acrylate 20, ethylene oxide-modified phosphate dimethacrylate 20, and 2-hydroxy-2-methyl-1-phenylpropane-1-one 7 parts were mixed to give a title composition (PII  $\leq 2$ ), which was spin-coated onto a polycarbonate substrate and irradiated with UV light to give a test piece showing cross-cut adhesion 100/100.

IT 169157-18-0P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(nonirritating UV-curable acrylic resin coatings)

RN 169157-18-0 HCAPLUS

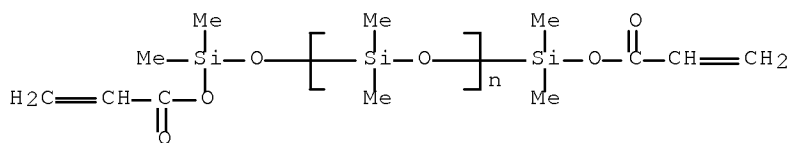
CN 2-Propenoic acid, 2-phenoxyethyl ester, polymer with  
 $\alpha$ -[dimethyl[(1-oxo-2-propenyl)oxy]silyl]- $\omega$ -[[dimethyl[(1-oxo-2-propenyl)oxy]silyl]oxy]poly[oxy(dimethylsilylene)],  
 $\alpha, \alpha'$ -(2,2-dimethyl-1,3-propanediyl)bis[ $\omega$ -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)],  
 $\alpha$ -hydro- $\omega$ -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)  
ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) and  
 $\alpha, \alpha'$ -phosphinobis[ $\omega$ -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 169157-17-9

CMF (C2 H6 O Si)<sub>n</sub> C10 H18 O5 Si2

CCI PMS



CM 2

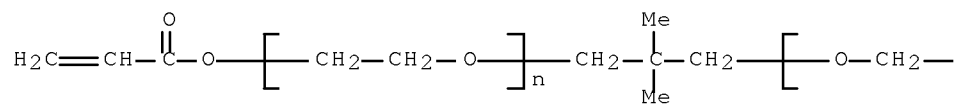
CRN 84170-28-5

CMF (C2 H4 O)<sub>n</sub> (C2 H4 O)<sub>n</sub> C11 H16 O4

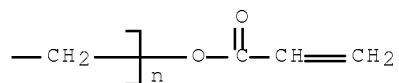
CCI PMS



PAGE 1-A



PAGE 1-B



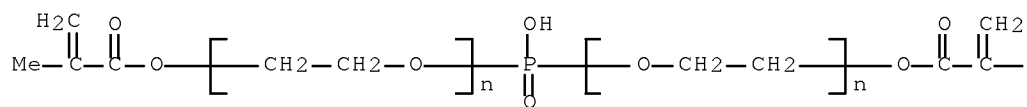
CM 3

CRN 72829-36-8

CMF (C2 H4 O)<sub>n</sub> (C2 H4 O)<sub>n</sub> C8 H11 O6 P

CCI PMS

PAGE 1-A



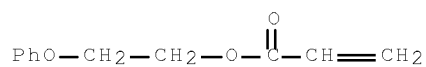
PAGE 1-B



CM 4

CRN 48145-04-6

CMF C11 H12 O3



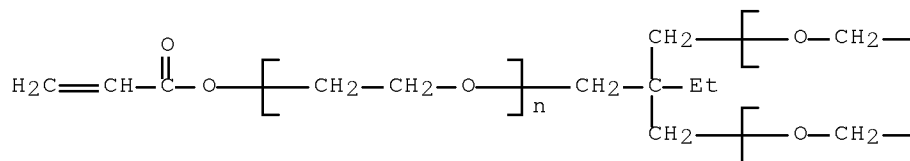
CM 5

CRN 28961-43-5

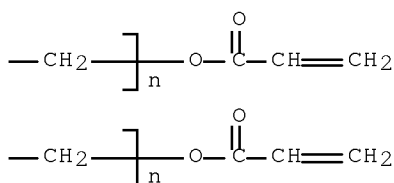
CMF (C2 H4 O)n (C2 H4 O)n (C2 H4 O)n C15 H20 O6

CCI PMS

PAGE 1-A



PAGE 1-B



L38 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1995:279117 HCAPLUS Full-text

DOCUMENT NUMBER: 122:268186

ORIGINAL REFERENCE NO.: 122:48917a,48920a

TITLE: Applications of thermogravimetry-Fourier transform IR spectroscopy in the characterization of weathered sealants

AUTHOR(S): Paroli, Ralph M.; Delgado, Ana H.

CORPORATE SOURCE: Inst. Res. Construction, Natl. Res. Council Canada, Ottawa, ON, K1A 0R6, Can.

SOURCE: ACS Symposium Series (1994), 581(Hyphenated Techniques in Polymer Characterization), 129-48  
CODEN: ACSMC8; ISSN: 0097-6156

PUBLISHER: American Chemical Society

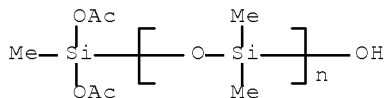
DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 07 Jan 1995

AB The combination of thermogravimetry-Fourier transform IR spectroscopy (TG-FTIR) was used to study the effects of accelerated weathering on silicone and polyurethane sealants. All evolved gases from the TG are sent to an FTIR spectrometer using a heated transfer line. The results demonstrate that this technique can be useful in identifying the decomposition products of construction sealants. It is relatively simple and can be adapted to most TG and FTIR combinations. Care must be taken that no leaks in the transfer line occur, since that could lead to peaks appearing in the IR spectrum but not appearing in the TG curve (e.g., oxidation of polymer backbone). This technique can be used to monitor the changes in chemical composition due to aging or weathering.

IT 162707-65-5  
 RL: PRP (Properties)  
 (thermogravimetry-Fourier Transform IR spectroscopy in the  
 characterization of weathered sealants)  
 RN 162707-65-5 HCAPLUS  
 CN Poly[oxy(dimethylsilylene)],  $\alpha$ -[bis(acetyloxy)methylsilyl]- $\omega$ -  
 hydroxy- (9CI) (CA INDEX NAME)

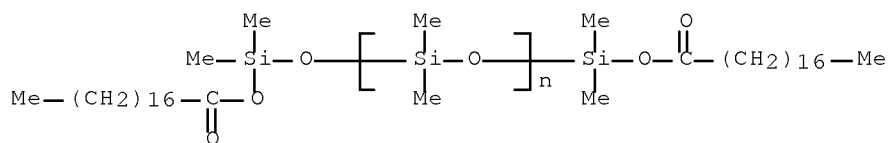


L38 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 1995:273010 HCAPLUS Full-text  
 DOCUMENT NUMBER: 122:33418  
 ORIGINAL REFERENCE NO.: 122:6543a,6546a  
 TITLE: Manufacture of silicone rubber molds from original  
 molds  
 INVENTOR(S): Takita, Kenichi; Takahashi, Masaharu  
 PATENT ASSIGNEE(S): Shinetsu Chemical Industry Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06226751	A	19940816	JP 1993-40448	19930204 <--
JP 2743956	B2	19980428		
PRIORITY APPLN. INFO.:			JP 1993-40448	19930204 <--

ED Entered STN: 05 Jan 1995  
 AB Silicone rubber molds are easily prepared by spreading releasing agents on  
 vulcanizer-containing peelable type silicone rubber sheets, spreading  
 releasing agents on the surfaces of cavities of the original molds,  
 vulcanizing the sheets in the cavities, and removing the sheets. A peroxide-  
 vulcanized KE 662U molding with smooth appearance was prepared as described  
 above within 10 s using HO(CH<sub>2</sub>CH<sub>2</sub>O)<sub>3</sub>Me<sub>2</sub>Si(OCH<sub>2</sub>CH<sub>2</sub>)<sub>3</sub>OH as the releasing agent.

IT 159978-01-5  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material  
 use); USES (Uses)  
 (mold release; manufacture of silicone rubber molds with specific releasing  
 agents)  
 RN 159978-01-5 HCAPLUS  
 CN Poly[oxy(dimethylsilylene)],  $\alpha$ -[dimethyl[(1-oxooctadecyl)oxy]silyl]-  
 $\omega$ -[[dimethyl[(1-oxooctadecyl)oxy]silyl]oxy]- (9CI) (CA INDEX NAME)



L38 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 1994:220507 HCAPLUS Full-text  
 DOCUMENT NUMBER: 120:220507  
 ORIGINAL REFERENCE NO.: 120:39137a,39140a  
 TITLE: Preparation of copolymers of siloxane (meth)acrylates  
 and nonaqueous dispersions therefrom  
 INVENTOR(S): Tsubushi, Kazuo; Umemura, Kazuhiko; Uematsu, Hidemi  
 PATENT ASSIGNEE(S): Ricoh Kk, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05255443	A	19931005	JP 1992-86449	19920310 <--
JP 3306717	B2	20020724		

PRIORITY APPLN. INFO.: JP 1992-86449 19920310 <--

ED Entered STN: 30 Apr 1994

AB The title copolymers, having good dispersibility in silicone oil and fluoro solvents, and useful for adhesives, inks, toners, coatings, etc., are prepared by copolymn. of R1R2R3Si(OSiR4R5)mOSiR6R7(OCH2CH2)nOCOCR8:CH2 (I) [R1-7 = CnH2n+1, OH, CO2H, NH2, NMe2, NEt2, (CH2)2OH, (CH2)2NH2, (CH2)2NMe2, (CH2)2NEt2, (CH2)3NH2, (CH2)3NMe2, (CH2)3NEt2, (CH2)3CO2H, (CH2)2CO2H, Ph, halo, OCOCH:CH2, OCOCMe:CH2; R8 = Me, H; m = 1-500; n = 1-10] with (meth)acrylates. Heating I (R1-8 = Me; m = 10; n = 1) 50, lauryl methacrylate 100, and AIBN 5 g in 500 g silicone oil at 80° gave a dispersion having viscosity 50 cP, and particle diameter 0.05 μm.

IT 154256-35-6P 154256-37-8P

RL: PREP (Preparation)

(nonaq. dispersions, preparation of, with good dispersibility)

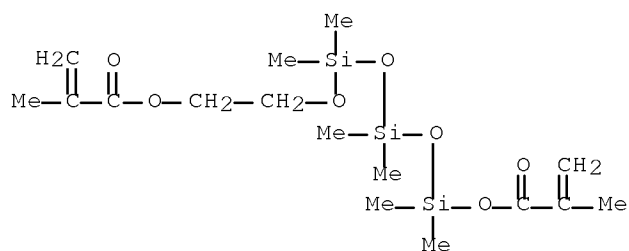
RN 154256-35-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1,3,3,5,5-hexamethyl-5-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]trisiloxanyl ester, polymer with dodecyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 154256-34-5

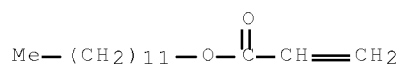
CMF C16 H32 O7 Si3



CM 2

CRN 2156-97-0

CMF C15 H28 O2



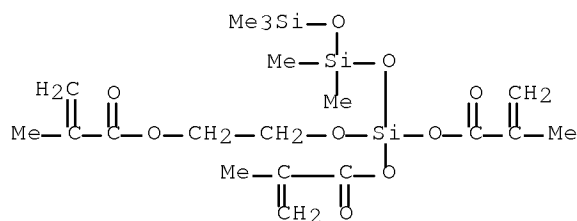
RN 154256-37-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3,3,5,5,5-pentamethyl-1-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]trisiloxanylidene ester, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 154256-36-7

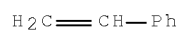
CMF C19 H34 O9 Si3



CM 2

CRN 100-42-5

CMF C8 H8



L38 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1989:536159 HCAPLUS Full-text

DOCUMENT NUMBER: 111:136159

ORIGINAL REFERENCE NO.: 111:22795a,22798a

TITLE: Curable siloxane-barium sulfate compositions for sealants

INVENTOR(S): Jonas, Reinhardt; Ulzheimer, Rudi

PATENT ASSIGNEE(S): Perennator G.m.b.H., Fed. Rep. Ger.

SOURCE: Eur. Pat. Appl., 9 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 313258	A2	19890426	EP 1988-309530	19881012 <--
EP 313258	A3	19901003		

R: DE, FR, GB, IT, NL

PRIORITY APPLN. INFO.: GB 1987-24502 A 19871020 &lt;--

ED Entered STN: 14 Oct 1989

AB Moisture-curable siloxane compns., useful as sealants, comprise (A) a mixture and/or a reaction product of an OH-containing poly(diorganosiloxane) with acyloxypolysiloxanes and (B) precipitated BaSO<sub>4</sub> filler having a specific particle size distribution. Thus, dimethylhydroxysilyl-terminated poly(dimethylsiloxane) (viscosity 50,000 mm<sup>2</sup>/s) 29.5, AcOH-trichloroethylsilane reaction product (vulcanizing agent) 2, poly(dimethylsiloxane) (viscosity 200-1000 mm<sup>2</sup>/s) 10.5, precipitated BaSO<sub>4</sub> (Blanc Fixe F, having an average particle size 1 + 10<sup>-6</sup> m) 58, and dibutyltin diacetate catalyst 0.02 parts were mixed without external heating, and aged for 7 days at ambient temperature to form a sealant showing Shore A hardness 18, skin time 15 min, elongation >800%, and 100% modulus 0.35 MPa, compared with 25, 25, 550, and 0.35, resp., for a similar sealant composition using 50 parts ground BaSO<sub>4</sub> (having average particle size .apprx.10 + 10<sup>-6</sup> m) instead of the precipitated BaSO<sub>4</sub>.

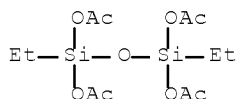
IT 122842-90-4

RL: USES (Uses)

(vulcanizing agents, for silicone rubber compns.)

RN 122842-90-4 HCAPLUS

CN 1,1,3,3-Disiloxanetetrol, 1,3-diethyl-, tetraacetate (9CI) (CA INDEX NAME)



L38 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1986:34962 HCAPLUS Full-text

DOCUMENT NUMBER: 104:34962

ORIGINAL REFERENCE NO.: 104:5743a,5746a

TITLE: Curable alkenyl siloxane compositions

INVENTOR(S): Suzuki, Toshio

## Serial No.:10/555,857

PATENT ASSIGNEE(S): Toray Silicone Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 17 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 154898	A2	19850918	EP 1985-102225	19850228 <--
EP 154898	A3	19870826		
EP 154898	B1	19901003		
R: CH, DE, FR, GB, IT, LI, SE				
JP 60181162	A	19850914	JP 1984-37112	19840228 <--
JP 03063994	B	19911003		
US 4631321	A	19861223	US 1985-703639	19850221 <--
CA 1245395	A1	19881122	CA 1985-475133	19850226 <--
US 4683278	A	19870728	US 1986-897488	19860818 <--
PRIORITY APPLN. INFO.:			JP 1984-37112	A 19840228 <--
			US 1985-703639	A3 19850221 <--

ED Entered STN: 08 Feb 1986

AB Products with high strength are prepared without reinforcing fillers by curing mixts. of alkenyl siloxanes, hydrogen siloxanes, and Pt catalysts. Applications include elec. and electronic parts, silicone rubber molds, and coatings for wires or optical fibers. Thus, a siloxane (viscosity 0.6 Pa-s) was prepared by mixing an HSi-terminated di-Me siloxane (viscosity 0.25 Pa-s) 100, Si(OSiMe<sub>2</sub>CH:CH<sub>2</sub>)<sub>4</sub> 25, and 3% H<sub>2</sub>PtCl<sub>6</sub> 0.5 part at 150° for 2 h. A mixture of this siloxane 100, di-Me siloxane-Me hydrogen siloxane copolymer (viscosity 0.01 Pa-s) 8, 3% H<sub>2</sub>PtCl<sub>6</sub> 0.5, and 3 phenyl-1-butyne-3-ol 0.1 part was cured at 150° for 2.5 h. The product had 8 kg/cm<sup>2</sup> tensile strength and JIS hardness 40.

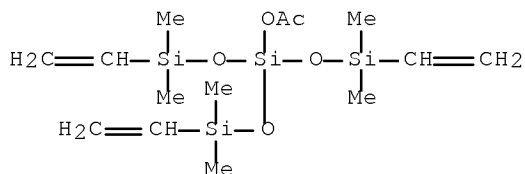
IT 99796-45-9

RL: USES (Uses)

(in hydrosilylation-curable siloxane compns.)

RN 99796-45-9 HCAPLUS

CN Silanol, 1,1,1-tris[(ethenyldimethylsilyl)oxy]-, 1-acetate (CA INDEX NAME)



L38 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1985:63721 HCAPLUS Full-text

DOCUMENT NUMBER: 102:63721

ORIGINAL REFERENCE NO.: 102:10005a,10008a

TITLE: Epoxy coating compositions

PATENT ASSIGNEE(S): Toshiba Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59168072	A	19840921	JP 1983-42306	19830316 <--
PRIORITY APPLN. INFO.:			JP 1983-42306	19830316 <--

ED Entered STN: 24 Feb 1985

AB The title compns. having excellent pot life and forming anticorrosive coatings with excellent adhesion contain an Al compound and an organic Si compound having ≤1 hydrolyzable or thermally decomposable group bonded to Si. Thus, a composition from Epikote 828 [25068-38-6] 25, Epikote 1004 5, ERL 4221 [25085-98-7] (alicyclic epoxy resin) 10, tris(Bu acetoacetate)aluminum [83779-04-8] 1, dimethoxydiphenylsilane [6843-66-9] 1, TiO<sub>2</sub> 20, talc 13, BaSO<sub>4</sub> 13, bentonite 2, and Me iso-Bu ketone 10 parts had gel time (40°) >40 days. This composition has coated on a mild steel plate, dried at 80° for 1 h, and baked at 160° for 10 h to give coating having excellent water and salt-water-spray resistances.

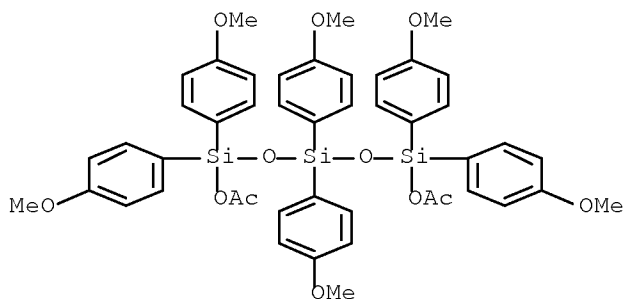
IT 94593-09-6

RL: CAT (Catalyst use); USES (Uses)

(catalysts, containing aluminum compds., pot life-extending, for crosslinking of anticorrosive epoxy resin coatings)

RN 94593-09-6 HCAPLUS

CN 1,5-Trisiloxanediol, 1,1,3,3,5,5-hexakis(4-methoxyphenyl)-, diacetate (9CI) (CA INDEX NAME)



L38 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1978:445196 HCAPLUS Full-text

DOCUMENT NUMBER: 89:45196

ORIGINAL REFERENCE NO.: 89:7051a,7054a

TITLE: Abrasion-resistant silicone-coating

INVENTOR(S): Vaughn, Howard Alton, Jr.; Holub, Fred Frank

PATENT ASSIGNEE(S): General Electric Co., USA

SOURCE: Ger. Offen., 40 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DE 2752617	A1	19780601	DE 1977-2752617	19771125 <--
GB 1596760	A	19810826	GB 1977-45713	19771103 <--
FR 2372204	A1	19780623	FR 1977-35486	19771125 <--
JP 53081533	A	19780719	JP 1977-140782	19771125 <--
PRIORITY APPLN. INFO.:			US 1976-745151	A 19761126 <--

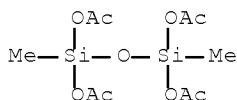
ED Entered STN: 12 May 1984

AB Reaction products of H<sub>2</sub>N(CH<sub>2</sub>)<sub>3</sub>Si(OEt)<sub>3</sub> (I) [919-30-2] and maleic anhydride (II) were used in the preparation of abrasion-resistant coatings for plastics, metals, glass, etc. Thus, 10 parts BuOH containing 0.2 part I-II reaction product (50% in EtOH) was coated on a substrate as a primer, hardened at 120° during 60 min, coated with a mixture of partially hydrolyzed MeSi(OEt)<sub>3</sub> (30% in BuOH) 10, I-II reaction product (50% in EtOH) 1, and HO(SiMe<sub>2</sub>O)<sub>6</sub>H 0.5 part, dried in air, and hardened at 120° during 60 min to prepare an abrasion- and acetone-resistant coating.

IT ~~17985-00-1~~  
 RL: USES (Uses)  
 (coatings containing, abrasion- and solvent-resistant)

RN 17985-00-1 HCAPLUS

CN 1,1,3,3-Disiloxanetetrol, 1,3-dimethyl-, 1,1,3,3-tetraacetate (CA INDEX NAME)



L38 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1976:76066 HCAPLUS Full-text

DOCUMENT NUMBER: 84:76066

ORIGINAL REFERENCE NO.: 84:12491a,12494a

TITLE: Organosilicon composition which heightens and immediately imparts antiadhesive properties to cellulose and synthetic materials

INVENTOR(S): Dumoulin, Jean

PATENT ASSIGNEE(S): Rhone-Poulenc S. A., Fr.

SOURCE: Ger. Offen., 23 pp.  
 CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2525883	A1	19751211	DE 1975-2525883	19750610 <--
DE 2525883	B2	19771110		
FR 2273835	A1	19760102	FR 1974-19950	19740610 <--
GB 1479356	A	19770713	GB 1975-22816	19750523 <--
NL 7506522	A	19751212	NL 1975-6522	19750602 <--
NL 167984	B	19810916		
NL 167984	C	19820216		
JP 51033150	A	19760322	JP 1975-68482	19750606 <--
JP 52009469	B	19770316		
ZA 7503675	A	19760526	ZA 1975-3675	19750606 <--

Serial No.:10/555,857

AU 7581916	A	19761118	AU 1975-81916	19750606 <--
US 4018734	A	19770419	US 1975-584353	19750606 <--
BE 830022	A1	19751209	BE 1975-157154	19750609 <--
NO 7502037	A	19751211	NO 1975-2037	19750609 <--
NO 142674	B	19800616		
NO 142674	C	19800924		
SE 7506581	A	19751211	SE 1975-6581	19750609 <--
SE 422585	B	19820315		
SE 422585	C	19820624		
CH 572509	A5	19760213	CH 1975-7404	19750609 <--
BR 7503611	A	19760622	BR 1975-4622	19750609 <--
CA 1050184	A1	19790306	CA 1975-228824	19750609 <--
FI 7501735	A	19751211	FI 1975-1735	19750610 <--
FI 62125	B	19820730		
FI 62125	C	19821110		

PRIORITY APPLN. INFO.:

FR 1974-19950

A 19740610 <--

ED Entered STN: 12 May 1984

AB Coating paper and polyethylene (I) [9002-88-4] with a siloxane composition containing organotin, epoxy- and acetoxysilane, and alkoxyethylated melamine derivs. and drying increased the nonstick properties of the substrates. Thus, cm-celulose and I-coated kraft paper carriers were sep. coated with a mixture of polyoctamethylcyclotetrasiloxane [25037-57-4] 100, hydrocarbon solvent 1330, MeCOEt 10, dibutyltin dilaurate [77-58-7] 1.6, [3-(2,3-epoxypropoxy)propyltrimethoxysilane [2530-83-8] 0.2, hexakis(methoxymethyl)melamine [3089-11-0] 0.5, and methyltriacetoxysilane [4253-34-3] 3.3 parts, and dried for 5 and 15 sec at 150° and 120° resp., to give carriers with 0.6 and 0.3 g/m2 coat weight which had 2 g separating power for 1 cm width band when an adhesive tape was applied to the coated sides of each carrier.

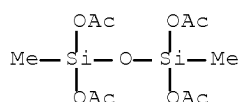
IT 17985-00-1

RL: USES (Uses)

(siloxanes containing organotin derivs. and, antisticky coatings, on paper)

RN 17985-00-1 HCAPLUS

CN 1,1,3,3-Disiloxanetetrol, 1,3-dimethyl-, 1,1,3,3-tetraacetate (CA INDEX NAME)



# Search History

ACT USE857STR4/A

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L1 STR  
L2 529 SEA SSS FUL L1

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ACT USE857STR17/A

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L3 STR  
L4 ( 529)SEA SSS FUL L3  
L5 STR  
L6 422 SEA SUB=L4 SSS FUL L5

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FILE 'HCAPLUS' ENTERED AT 09:32:15 ON 25 JUN 2009

ACT USE857HC1AU/A

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L7 STR  
L8 ( 529)SEA SSS FUL L7  
L9 STR  
L10 ( 422)SEA SUB=L8 SSS FUL L9  
L11 ( 310)SEA SPE=ON ABB=ON PLU=ON L10  
L12 ( 101)SEA SPE=ON ABB=ON PLU=ON GILLARD M?/AU  
L13 ( 528)SEA SPE=ON ABB=ON PLU=ON VOS M?/AU  
L14 4 SEA SPE=ON ABB=ON PLU=ON (L12 OR L13) AND L11

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ACT USE857HC1A/A

L15 167 SEA SPE=ON ABB=ON PLU=ON L6(L)PREP/RL  
L16 150 SEA SPE=ON ABB=ON PLU=ON L15 AND (PRY<=2003 OR PY<=2003 OR  
AY<=2003 OR PD<=2003)  
L17 90310 SEA SPE=ON ABB=ON PLU=ON PAINTS+OLD,NT/CT OR PAINT/BI  
L18 1 SEA SPE=ON ABB=ON PLU=ON L16 AND L17  
L19 310 SEA SPE=ON ABB=ON PLU=ON L6  
L20 4 SEA SPE=ON ABB=ON PLU=ON L17 AND L19  
L21 3 SEA SPE=ON ABB=ON PLU=ON L20 AND (PRY<=2003 OR PY<=2003 OR  
AY<=2003 OR PD<=2003)  
L22 1 SEA SPE=ON ABB=ON PLU=ON WO2004-EP04997/APPS  
L23 25 SEA SPE=ON ABB=ON PLU=ON L19 AND 42/SC,SX  
L24 8 SEA SPE=ON ABB=ON PLU=ON L15 AND 42/SC,SX  
L25 4129 SEA SPE=ON ABB=ON PLU=ON ANTIFOULING AGENTS+OLD,NT/CT  
L26 1 SEA SPE=ON ABB=ON PLU=ON L15 AND L25  
L27 1 SEA SPE=ON ABB=ON PLU=ON L19 AND L25  
L28 25 SEA SPE=ON ABB=ON PLU=ON (L23 OR L24 OR L26 OR L27)  
L29 17 SEA SPE=ON ABB=ON PLU=ON L28 AND (PRY<=2003 OR PY<=2003 OR  
AY<=2003 OR PD<=2003)  
L30 101 SEA SPE=ON ABB=ON PLU=ON GILLARD M?/AU  
L31 528 SEA SPE=ON ABB=ON PLU=ON VOS M?/AU  
L32 3 SEA SPE=ON ABB=ON PLU=ON (L30 OR L31) AND L29  
L33 7 SEA SPE=ON ABB=ON PLU=ON (L20 OR L32)  
L34 10201 SEA SPE=ON ABB=ON PLU=ON ANTIFOUL?/BI  
L35 9 SEA SPE=ON ABB=ON PLU=ON (L15 OR L19) AND L34  
L36 6 SEA SPE=ON ABB=ON PLU=ON L35 AND (PRY<=2003 OR PY<=2003 OR  
AY<=2003 OR PD<=2003)  
L37 18 SEA SPE=ON ABB=ON PLU=ON (L29 OR L36)

FILE 'HCAPLUS' ENTERED AT 09:55:02 ON 25 JUN 2009

L38

12 SEA SPE=ON ABB=ON PLU=ON L37 NOT L33